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TO TEST OR NOT TEST

by

John W. GRUNENWALD

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AN ABSTRACT
of
TO TEST OR NOT TO TEST

by
John W. Grunenwald

Submitted to the
Faculty of the School of International Service
of The American University
in Partial Fulfillment of
the Requirements for the Degree
of
MASTER OF ARTS

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May 1964

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ABSTRACT

The Nuclear Powers have been conducting negotiations on the discontinuance of nuclear weapon tests almost continuously since July 1, 1958, when the Conference of Experts convened.

Why then have the Nuclear Powers been in almost continuous session for over five years and no agreement reached? "To Test or Not to Test" is an attempt to answer that question.

The evolution of the respective positions of the United States and the Soviet Union is traced through a historical analysis of the negotiations with a view to trying to determine where these negotiations will lead.

The main emphasis of the investigation was on the negotiations during the period of July 1, 1958 through June 21, 1963.

The conclusion reached was that an agreement was possible if a common ground for negotiation could be found.

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Signatures of Committee:

Chairman: _____

Date: _____

Dean of the School

Date: _____

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MASTER OF ARTS

in the field of

International Relations

The author wishes to express his appreciation to

the members of the committee for their assistance

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TABLE OF CONTENTS

CHAPTER	PAGE
I. INTRODUCTION	1
II. CONFERENCE OF EXPERTS TO STUDY THE POSSIBILITY OF DETECTING VIOLATIONS OF A POSSIBLE AGREE- MENT ON THE SUSPENSION OF NUCLEAR TESTS	
JULY 1, 1958 TO AUGUST 21, 1958	3
Background	3
The Geneva Conference of Experts	5
Introduction	5
Background information	6
Basic methods of detection and identifica- tion of Nuclear Explosions	9
Acoustic waves	9
Radioactive debris	9
Seismic waves	10
Radio signals	11
High-altitude explosions	12
The technical equipment of the control system	12
The control system	13
Control posts network	14
Effectiveness of the control system	15
Summary	17
Footnotes	18

TABLE OF CONTENTS

CHAPTER	PAGE
I. INTRODUCTION	1
II. CONFERENCE OF EXPERTS TO STUDY THE POSSIBILITY OF DETECTING VIOLATIONS OF A POSSIBLE AGREE- MENT ON THE SUSPENSION OF NUCLEAR TESTS	
JULY 1, 1958 TO AUGUST 21, 1958	3
Background	3
The Geneva Conference of Experts	5
Introduction	5
Background information	6
Basic methods of detection and identifica- tion of Nuclear Explosions	9
Acoustic waves	9
Radioactive debris	9
Seismic waves	10
Radio signals	11
High-altitude explosions	12
The technical equipment of the control system	12
The control system	13
Control posts network	14
Effectiveness of the control system	15
Summary	17
Footnotes	18

CHAPTER

PAGE

III. CONFERENCE ON THE DISCONTINUANCE OF NUCLEAR

WEAPON TESTS OCTOBER 31, 1958 - JANUARY 29,

1962 20

Background 20

The moratorium 21

Procedure 22

The First Period October 31, 1958 -

December 19, 1958 22

Introduction 22

Search for agenda 23

Western views on effective control 25

Soviet position on control 25

The control organization 27

Western principles on the control

organization 27

Soviet view on the control organization 28

United States submits draft articles on

the control organization 29

Adoption of treaty articles 30

Article 1 30

Article 2 30

Article 3 30

Article 4 31

Summary 31

LIST OF CONTENTS OF THE PROCEEDINGS OF THE CONFERENCE

CONFERENCE THIS CONFERENCE IS HELD IN JANUARY 1978

1978 1978

1978 1978

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The first part of the conference is held in

1978 1978

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The third part of the conference is held in

1978 1978

1978 1978

1978 1978

1978 1978

1978 1978

1978 1978

1978 1978

CHAPTER

The Second Period January 5, 1959 -

March 20, 1959	32
Introduction	32
Submission of new data on underground	
testing	32
Soviet views on new scientific data . . .	33
Continuing debate	34
Western Powers drop disarmament tie	35
On-site inspections and inspection groups .	35
Western views on on-site inspections and	
inspection groups	35
Soviet critique of Western position . . .	36
Soviet views on inspection and	
inspection groups	37
Continuing debate	38
Control posts and headquarters staffing . .	39
The Western position	39
The Soviet position	41
Headquarters staffing	42
Continuing disagreement	43
The Soviet veto list	43
Western reaction	45
Soviet reply	45
Western critique of Soviet veto list . .	45

The General Period February 1944 -

11 March 1944

12 Introduction

13 Statement of new data on development

14 Testing of new data

15 Further views on new scientific data

16 Limiting factors

17 Western trends in development

18 Eastern development and industrialization

19 Western trends in development

20 Industrial groups

21 Social structure of Western countries

22 Social class in development

23 Industrial groups

24 Limiting factors

25 Social trends and development

26 The Western position

27 The Soviet position

28 Development starting

29 Limiting development

30 The Soviet view

31 Western countries

32 Soviet view

33 Western countries in Soviet view

CHAPTER

PAGE

Continuing debate	45
Nuclear detonations for peaceful purposes	47
Soviet response to peaceful detonation proposal	48
Composition of the control commission . . .	49
Debate over this proposal	50
Adoption of draft treaty articles	50
Summary	51
The Third Period April 13, 1959 - May 8,	
1959	51
Introduction	51
Phased agreement proposal	52
Soviet reaction to phased agreement proposal	53
Soviet proposal of annual quota of on- site inspections	53
Western reaction	53
Soviet reply	54
Western counter-reply	55
Continuing discussion on staffing	55
Adoption of treaty articles	56
Summary	57

11	.....	Continuing debate
12	.....	Continuing debate
13	.....	Continuing debate
14	.....	Continuing debate
15	.....	Continuing debate
16	.....	Continuing debate
17	.....	Continuing debate
18	.....	Continuing debate
19	.....	Continuing debate
20	.....	Continuing debate
21	.....	Continuing debate
22	.....	Continuing debate
23	.....	Continuing debate
24	.....	Continuing debate
25	.....	Continuing debate
26	.....	Continuing debate
27	.....	Continuing debate
28	.....	Continuing debate
29	.....	Continuing debate
30	.....	Continuing debate
31	.....	Continuing debate
32	.....	Continuing debate
33	.....	Continuing debate
34	.....	Continuing debate
35	.....	Continuing debate
36	.....	Continuing debate
37	.....	Continuing debate
38	.....	Continuing debate
39	.....	Continuing debate
40	.....	Continuing debate
41	.....	Continuing debate
42	.....	Continuing debate
43	.....	Continuing debate
44	.....	Continuing debate
45	.....	Continuing debate
46	.....	Continuing debate
47	.....	Continuing debate
48	.....	Continuing debate
49	.....	Continuing debate
50	.....	Continuing debate
51	.....	Continuing debate
52	.....	Continuing debate
53	.....	Continuing debate
54	.....	Continuing debate
55	.....	Continuing debate
56	.....	Continuing debate
57	.....	Continuing debate
58	.....	Continuing debate
59	.....	Continuing debate
60	.....	Continuing debate
61	.....	Continuing debate
62	.....	Continuing debate
63	.....	Continuing debate
64	.....	Continuing debate
65	.....	Continuing debate
66	.....	Continuing debate
67	.....	Continuing debate
68	.....	Continuing debate
69	.....	Continuing debate
70	.....	Continuing debate
71	.....	Continuing debate
72	.....	Continuing debate
73	.....	Continuing debate
74	.....	Continuing debate
75	.....	Continuing debate
76	.....	Continuing debate
77	.....	Continuing debate
78	.....	Continuing debate
79	.....	Continuing debate
80	.....	Continuing debate
81	.....	Continuing debate
82	.....	Continuing debate
83	.....	Continuing debate
84	.....	Continuing debate
85	.....	Continuing debate
86	.....	Continuing debate
87	.....	Continuing debate
88	.....	Continuing debate
89	.....	Continuing debate
90	.....	Continuing debate
91	.....	Continuing debate
92	.....	Continuing debate
93	.....	Continuing debate
94	.....	Continuing debate
95	.....	Continuing debate
96	.....	Continuing debate
97	.....	Continuing debate
98	.....	Continuing debate
99	.....	Continuing debate
100	.....	Continuing debate

CHAPTER

PAGE

The Fourth Period June 8, 1959 -

August 26, 1959 57

Introduction 57

Establishment and report of the Technical

Working Group 58

Report of the Technical Working Group . . 59

Acceptance of the findings of the

Group by the Conference 61

New seismic data submitted by the United

States 62

Soviet reaction 63

Soviet on-site inspection quota proposal . 64

Staffing proposals 64

United States introduces new proposal . . 65

United Kingdom submits new Western

proposal 65

Soviet Union submits new staffing

proposal 66

Preparatory commission 67

Status of the Soviet veto list 68

Soviet critique of status of the veto

list 69

Summary 71

The Fifth Period October 27, 1959 -

CHAPTER

PAGE

December 19, 1959	71
Introduction	71
Technical Working Group II	72
Soviet reaction	73
Report of the Technical Working Group	
II	74
Function of the Control Commission and	
the Administrator	76
Western reaction	78
Soviet Union modifies proposal on	
functions of the Commission	79
Agreement on certain paragraphs of	
Articles VI and IX	79
Soviet package proposal	80
Western comments on the proposal	81
Draft Annex on the preparatory commission .	82
Summary	82
The Sixth Period January 12, 1960 -	
April 14, 1960	83
Introduction	83
Dispute over the technical system	83
Soviet proposal on the technical	
problem	85
United States proposal for a phased treaty.	85

114	.....
115	.....
116	.....
117	.....
118	.....
119	.....
120	.....
121	.....
122	.....
123	.....
124	.....
125	.....
126	.....
127	.....
128	.....
129	.....
130	.....
131	.....
132	.....
133	.....
134	.....
135	.....
136	.....
137	.....
138	.....
139	.....
140	.....
141	.....
142	.....
143	.....
144	.....
145	.....
146	.....
147	.....
148	.....
149	.....
150	.....

CHAPTER

PAGE

Soviet reaction to the proposal	88
Soviet Union proposes temporary criteria	88
Western critique of Soviet criteria proposal	90
Soviet phased treaty and moratorium	90
West conditionally accepts Soviet phased treaty and moratorium proposal	92
United States proposes research study group	94
Special aircraft sampling flights	95
Observers on aircraft sampling flights	95
Selection of aircraft sampling routes	96
Summary	98
The Seventh Period April 25, 1960 -	
August 22, 1960	98
Introduction	98
Continued discussion of the phased treaty and the moratorium proposal	99
The seismic research program	100
United States submits proposal on safeguards	100
Soviet reply and counter-proposal	102

CHAPTER

PAGE

United States introduces new proposal . . .	102
Soviet reply to this new proposal	103
On-site inspection and the quota proposal . .	104
United States introduces draft article titled "On-site Inspection of Seismic Events"	104
Soviet critique of United States proposal	106
Soviet Union introduces quota number proposal	107
United States comments on the Soviet quota proposal	108
Inspection criteria	110
United Kingdom proposal	110
Soviet comments	111
New United States proposal	111
Draft Annex I - Detection and Identification System	112
Soviet views	113
The Deputies problem and staffing	115
Deputies controversy	115
New Soviet proposal	115
United Kingdom introduces new Western proposal	116

CHAPTER

PAGE

Soviet comments	116
Western comments on the Soviet	
counter-proposal	117
Staff problems	118
New United States proposal	118
Soviet reply and counter-proposal	119
United States comments on Soviet	
counter-proposal	119
Adoption of the definition article	120
Summary	120
Eighth Period September 27, 1960 -	
December 5, 1960	121
Introduction	121
The moratorium	121
Installation schedule of the detection and	
identification system	125
United Kingdom introduces new proposal	
on phasing	125
Soviet comments	127
West disagrees with Soviet analysis	128
Soviet reply to the split phasing	
proposal	128
Inspection quotas	130
The problem of the deputies	130

CHAPTER

PAGE

New Western proposal	130
Soviet comments	130
Summary	131
Ninth Period March 21, 1961 ~	
September 9, 1961	132
Introduction	132
The Soviet "troika" proposal	133
Western reply to Soviet "troika"	
proposal	133
Soviet defense of the "troika"	137
"Troika" debate continues	138
United States general statement and new	
proposals	139
Soviet reply to the New Western proposals .	146
Western comments on the Soviet	
critique	150
The Western draft treaty	151
The inspection problem	152
Western comments	154
United States introduces new proposal	
on inspections	156
Soviet comments	157
Disarmament link	158
New Western proposals	159
Soviet comments	162

101	1. The General Principles of the Theory of the
102	2. The General Principles of the Theory of the
103	3. The General Principles of the Theory of the
104	4. The General Principles of the Theory of the
105	5. The General Principles of the Theory of the
106	6. The General Principles of the Theory of the
107	7. The General Principles of the Theory of the
108	8. The General Principles of the Theory of the
109	9. The General Principles of the Theory of the
110	10. The General Principles of the Theory of the
111	11. The General Principles of the Theory of the
112	12. The General Principles of the Theory of the
113	13. The General Principles of the Theory of the
114	14. The General Principles of the Theory of the
115	15. The General Principles of the Theory of the
116	16. The General Principles of the Theory of the
117	17. The General Principles of the Theory of the
118	18. The General Principles of the Theory of the
119	19. The General Principles of the Theory of the
120	20. The General Principles of the Theory of the
121	21. The General Principles of the Theory of the
122	22. The General Principles of the Theory of the
123	23. The General Principles of the Theory of the
124	24. The General Principles of the Theory of the
125	25. The General Principles of the Theory of the
126	26. The General Principles of the Theory of the
127	27. The General Principles of the Theory of the
128	28. The General Principles of the Theory of the
129	29. The General Principles of the Theory of the
130	30. The General Principles of the Theory of the

CHAPTER

PAGE

Additional Western proposals	162
Soviet comments	163
Soviet resumption of nuclear weapon testing	163
Recess of the Conference	165
Summary	166
The Tenth Period November 28, 1961 -	
January 29, 1962	168
Introduction	168
New Soviet proposal	168
Western reply to the new Soviet proposal .	170
Soviet comments on the Western comments on their new proposal	171
Western formal rejection of the new Soviet agreement	172
Soviet reply to Western rejection of the new proposal	174
The Conference adjourns	175
Summary	176
Footnotes	179

IV. CONFERENCE OF THE EIGHTEEN-NATION COMMITTEE

ON DISARMAMENT MARCH 14, 1962 - June 21, 1963	192
Background	192

CHAPTER

PAGE

The First Period March 14, 1962 -

June 15, 1962 193

Introduction 193

Opening debate 194

Establishment of a Subcommittee on a

Treaty for the Discontinuance of

Nuclear Weapons Tests 195

Subcommittee meetings 195

Subcommittee deadlocked 197

Deadlock continues but positions aired . . 197

Discussion of the Nuclear Weapons Test

Dan Shifts to the Conference 198

Summary of the United States position . . 199

Summary of the Soviet position 200

The question of continued tests and a

moratorium 201

Conference discusses the testing issue . . 201

United States rejects new Soviet offer

for a moratorium 202

The Eight-Nation Memorandum 203

Western and Soviet interpretation of the

Memorandum 204

Soviet interpretation 204

Western interpretation 205

CHAPTER

PAGE

Soviet comments on Western interpreta- tion	206
Subcommittee discusses the Eight-Nation proposal	207
Non-aligned Nations express their views on the impasse	210
Deadlock continues in the Subcommittee . . .	212
Summary	214
The Second Period July 16, 1962 -	
September 7, 1962	215
Introduction	215
United States introduces report on Project Vela	216
Soviet Union rejects the new data	216
Western reply to Soviet rejection	218
Debate about testing during the negotia- tions	217
Soviet Union resumes testing	217
United States comments	217
Soviet defense of position	218
United States reply	218
Interpretation of the Eight-Nation	
Memorandum	218
Western interpretation continued	218

Soviet comments on Western interpreta-	
tion	219
Controversy continues	219
The Mexican and Brazilian proposals	
brought to the forefront	220
Controversy over Mexican proposal	220
New Proposals submitted by the West	222
Soviet comments on the new proposals	
in the Subcommittee	229
Test ban issue is aired by the Conference .	230
United States reviews the issue	230
Soviet representative comments on the	
issue	231
United Arab Republic submits a new	
suggestion	231
United States replies to the Soviet	
statement	232
United States comments on UAR suggestion .	232
Soviet Union critiques United States	
proposals and outlines the Soviet position	
on a test ban	233
Indian representative expresses views	
on the issue	235

100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200

CHAPTER

PAGE

United States and United Kingdom introduce	
alternative draft treaties	237
Comprehensive test ban treaty	237
Partial test ban treaty proposal	239
Soviet Union rejects the Western draft	
treaties	241
Non-aligned members express views	245
United States replies to Soviet charge	
about the draft treaties	248
United States proposes Subcommittee	
meetings during recess	250
Summary	252
The Third Period November 26, 1962 -	
December 20, 1962	253
Introduction	253
The Soviet Union and the United States	
review the Subcommittee meetings held	
during the recess	254
Western critique	254
Soviet critique	255
Sweden re-introduces the proposal for an	
interim commission	257
Comments on the Swedish proposal	258

137 - - - - -
 138 - - - - -
 139 - - - - -
 140 - - - - -
 141 - - - - -
 142 - - - - -
 143 - - - - -
 144 - - - - -
 145 - - - - -
 146 - - - - -
 147 - - - - -
 148 - - - - -
 149 - - - - -
 150 - - - - -
 151 - - - - -
 152 - - - - -
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 155 - - - - -
 156 - - - - -
 157 - - - - -
 158 - - - - -
 159 - - - - -
 160 - - - - -
 161 - - - - -
 162 - - - - -
 163 - - - - -
 164 - - - - -
 165 - - - - -
 166 - - - - -
 167 - - - - -
 168 - - - - -
 169 - - - - -
 170 - - - - -
 171 - - - - -
 172 - - - - -
 173 - - - - -
 174 - - - - -
 175 - - - - -
 176 - - - - -
 177 - - - - -
 178 - - - - -
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 180 - - - - -
 181 - - - - -
 182 - - - - -
 183 - - - - -
 184 - - - - -
 185 - - - - -
 186 - - - - -
 187 - - - - -
 188 - - - - -
 189 - - - - -
 190 - - - - -
 191 - - - - -
 192 - - - - -
 193 - - - - -
 194 - - - - -
 195 - - - - -
 196 - - - - -
 197 - - - - -
 198 - - - - -
 199 - - - - -
 200 - - - - -

CHAPTER

Western and Soviet summary of the progress	
of the Subcommittee	259
Western review	259
Soviet review	261
Western reply	262
Debate over Automatic seismic stations . . .	262
United States views	262
Soviet views	263
Additional Western comments	264
Summary of the Subcommittee meetings during	
this period	264
Western review	264
Soviet review	267
Summary	268
The Fourth Period February 12, 1963 -	
June 21, 1963	268
Introduction	268
Opening statements	270
United States review of the meetings held	
during the recess	270
Soviet statement	272
United Arab Republic proposal	272
Deadlock continues	273

103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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CHAPTER

PAGE

United States reviews the status of	
the negotiations	273
Soviet views on the status of the	
negotiations	274
Soviet Union clarifies position	275
United States comments	276
Soviet counter-reply	277
United States proposes smaller number of	
inspections	278
Views on automatic seismic systems aired . .	278
Debate on procedures continues	280
United States outlines views on	
procedures	280
Soviet views	281
Western views of Soviet stand on	
technical issues	281
Soviet counter-reply	282
Views of the Eight non-aligned members . . .	282
Soviet comments	285
United States comments	285
Debate over on-site inspections and	
control	285
Soviet views on the control	
organization	286

111	United States - view of the station
112	United States - view of the station
113	United States - view of the station
114	United States - view of the station
115	United States - view of the station
116	United States - view of the station
117	United States - view of the station
118	United States - view of the station
119	United States - view of the station
120	United States - view of the station
121	United States - view of the station
122	United States - view of the station
123	United States - view of the station
124	United States - view of the station
125	United States - view of the station
126	United States - view of the station
127	United States - view of the station
128	United States - view of the station
129	United States - view of the station
130	United States - view of the station
131	United States - view of the station
132	United States - view of the station
133	United States - view of the station
134	United States - view of the station
135	United States - view of the station
136	United States - view of the station
137	United States - view of the station
138	United States - view of the station
139	United States - view of the station
140	United States - view of the station
141	United States - view of the station
142	United States - view of the station
143	United States - view of the station
144	United States - view of the station
145	United States - view of the station
146	United States - view of the station
147	United States - view of the station
148	United States - view of the station
149	United States - view of the station
150	United States - view of the station

CHAPTER

PAGE

United States analysis of the Soviet	
position	288
Soviet Union defends its position	290
Soviet analysis of the United States	
position	290
United States defense of its position . .	290
Soviet Union reaffirms the Soviet	
position	291
African members submit memorandum on the	
test ban issue	292
Announcement of Moscow talks	295
Conference recesses	297
Summary	298
Summary of the Conference of the Eighteen-	
Nation Committee on Disarmament	299
Footnotes	302

V. UNITED STATES AND SOVIET UNION NUCLEAR WEAPONS

TEST BAN POSITION 1 JULY 1963	311
Introduction	311
The United States position	311
Atmospheric, outer space and underwater	
tests	311
Underground tests	314
Verification system	315

1012	General remarks on the subject
1013	1. The subject of the subject
1014	2. The subject of the subject
1015	3. The subject of the subject
1016	4. The subject of the subject
1017	5. The subject of the subject
1018	6. The subject of the subject
1019	7. The subject of the subject
1020	8. The subject of the subject
1021	9. The subject of the subject
1022	10. The subject of the subject
1023	11. The subject of the subject
1024	12. The subject of the subject
1025	13. The subject of the subject
1026	14. The subject of the subject
1027	15. The subject of the subject
1028	16. The subject of the subject
1029	17. The subject of the subject
1030	18. The subject of the subject
1031	19. The subject of the subject
1032	20. The subject of the subject
1033	21. The subject of the subject
1034	22. The subject of the subject
1035	23. The subject of the subject
1036	24. The subject of the subject
1037	25. The subject of the subject
1038	26. The subject of the subject
1039	27. The subject of the subject
1040	28. The subject of the subject
1041	29. The subject of the subject
1042	30. The subject of the subject
1043	31. The subject of the subject
1044	32. The subject of the subject
1045	33. The subject of the subject
1046	34. The subject of the subject
1047	35. The subject of the subject
1048	36. The subject of the subject
1049	37. The subject of the subject
1050	38. The subject of the subject
1051	39. The subject of the subject
1052	40. The subject of the subject
1053	41. The subject of the subject
1054	42. The subject of the subject
1055	43. The subject of the subject
1056	44. The subject of the subject
1057	45. The subject of the subject
1058	46. The subject of the subject
1059	47. The subject of the subject
1060	48. The subject of the subject
1061	49. The subject of the subject
1062	50. The subject of the subject
1063	51. The subject of the subject
1064	52. The subject of the subject
1065	53. The subject of the subject
1066	54. The subject of the subject
1067	55. The subject of the subject
1068	56. The subject of the subject
1069	57. The subject of the subject
1070	58. The subject of the subject
1071	59. The subject of the subject
1072	60. The subject of the subject
1073	61. The subject of the subject
1074	62. The subject of the subject
1075	63. The subject of the subject
1076	64. The subject of the subject
1077	65. The subject of the subject
1078	66. The subject of the subject
1079	67. The subject of the subject
1080	68. The subject of the subject
1081	69. The subject of the subject
1082	70. The subject of the subject
1083	71. The subject of the subject
1084	72. The subject of the subject
1085	73. The subject of the subject
1086	74. The subject of the subject
1087	75. The subject of the subject
1088	76. The subject of the subject
1089	77. The subject of the subject
1090	78. The subject of the subject
1091	79. The subject of the subject
1092	80. The subject of the subject
1093	81. The subject of the subject
1094	82. The subject of the subject
1095	83. The subject of the subject
1096	84. The subject of the subject
1097	85. The subject of the subject
1098	86. The subject of the subject
1099	87. The subject of the subject
1100	88. The subject of the subject
1101	89. The subject of the subject
1102	90. The subject of the subject
1103	91. The subject of the subject
1104	92. The subject of the subject
1105	93. The subject of the subject
1106	94. The subject of the subject
1107	95. The subject of the subject
1108	96. The subject of the subject
1109	97. The subject of the subject
1110	98. The subject of the subject
1111	99. The subject of the subject
1112	100. The subject of the subject

CHAPTER	PAGE
Summary	321
The Position of the Soviet Union	323
Atmospheric, outer space and underwater tests	323
Underground tests	324
Verification system	324
Summary	325
Comparison of the Positions	325
Footnotes	327
VI. MUTUAL ADVANTAGES FOR DISCONTINUANCE OF NUCLEAR WEAPONS TESTING	328
Introduction	328
Humanitarian reasons	329
Slow down the arms race	332
Small step forward	333
Proliferation of nuclear weapons	335
Summary	336
Footnotes	337
VII. SUMMARY AND CONCLUSIONS	338
Summary	338
Conclusions	342
BIBLIOGRAPHY	347
APPENDIX	353

CHAPTER I

INTRODUCTION

The Nuclear Powers have been conducting negotiations on the discontinuance of nuclear weapons tests almost continuously since July 1, 1958, when the Conference of Experts to Study the Possibility of Detecting Violations of a Possible Agreement on the Suspension of Nuclear Tests was convened.

Why then have the Nuclear Powers been in almost continuous session for over five years and no agreement has been reached? "To Test or Not to Test," the title of this paper, is an attempt to answer that question.

The evolution of the respective positions of the United States and the Soviet Union will be traced through a historical analysis of the negotiations with a view to trying to determine where these negotiations will lead. If they lead to agreement, what mutual benefits will be derived by the Nuclear Powers will also be explored.

The main emphasis of the investigation will be on the negotiations. Starting with the Conference of Experts from July 1, 1958 to August 21, 1958; followed by the Conference on the Discontinuance of Nuclear Weapon Tests, from October 31, 1958 to January 29, 1962; and concluding with the Eighteen-Nation Committee on Disarmament

Conference and its Subcommittee on a Treaty for the Discontinuance of Nuclear Weapon Tests from March 14, 1962 to June 21, 1963. Thus, the period that will be covered will be from July 1, 1958 to June 21, 1963.

From these negotiations has evolved the United States and the Soviet Union's position in reference to the cessation of nuclear weapons tests. A chapter will be spent in putting forth these latest positions as of the first of July, 1963. The purpose of this chapter will be to set forth in concise terms just where the two positions stand in relation to each other.

The next chapter will be a review of the major arguments for the continuation of the nuclear weapons test ban negotiations and their role in the continuation of the negotiations.

The final and concluding chapter will attempt to summarize the course of the paper and in conclusion attempt to predict the future course of the negotiations and nuclear testing, based on the latest positions of the Nuclear Powers and the background of the negotiations.

The major source of information for this investigation will be the verbatim records of the three conferences and their attached documents. Additional sources will be the various publications of documents in the field of disarmament put out by the Department of State and the United States Arms Control and Disarmament Agency.

CHAPTER II

CONFERENCE OF EXPERTS TO STUDY THE POSSIBILITY OF DETECTING VIOLATIONS OF A POSSIBLE AGREEMENT ON THE SUSPENSION OF NUCLEAR TESTS JULY 1, 1958 to AUGUST 21, 1958

I. BACKGROUND

With the breakdown of the disarmament negotiations through the United Nations Disarmament Commission in the fall of 1957, a search was begun for other means to continue negotiations.

In January 1958, President Eisenhower sent a letter to Marshal Bulganin in which he proposed that various aspects of disarmament, including the control of a test ban, be studied by technical groups. He included a statement that "these technical studies could, if you wish, be undertaken without commitment as to ultimate acceptance, or to the interdependence, of the propositions involved."¹ This small step indicated a change in the United States position to discuss partial measures of disarmament and established the seed out of which grew the negotiations on a nuclear weapons test ban agreement.

An exchange of letters followed between President Eisenhower and the Soviet Premier, First Marshal Bulganin,

and later Nikita Khrushchev who succeeded him. The Soviet Union continued to press for an immediate suspension of nuclear weapons tests and unilaterally declared the discontinuing of all nuclear weapons tests on March 31, 1958, following an extensive tests series.² The United States did not accept the Soviet proposal for immediate suspension of nuclear tests but continued to press for a conference of technicians to study the problem of control. However, the United States continued to view the limitation or suspension of testing as a part of a broad disarmament agreement.³

On May 9, 1958, in a letter to President Eisenhower, Premier Khrushchev, after expressing concern that a technical study would delay suspension of tests, agreed "to having both sides designate experts who would immediately begin a study of methods of detecting possible violations of an agreement on the cessation of nuclear tests."⁴

In President Eisenhower's letter to Premier Khrushchev on May 24, 1958, he replied, "experts on our side would be prepared to meet in Geneva with experts from the Soviet side to study methods for detecting possible violations of an agreement on the cessation of nuclear tests."⁵

Premier Khrushchev in his letter to President Eisenhower on May 30, 1958, although continuing to state

his regrets that a technical study would delay a possible agreement, agreed to a meeting at Geneva.⁶

President Eisenhower in his letter to Premier Khrushchev on June 10, 1958, confirmed the site of the meeting and recommended that the conference convene on or about July 1, 1958.⁷

After a further exchange of correspondence, it was finally agreed to convene the conference of experts in Geneva on or about July 1, 1958, with experts from the United States, the United Kingdom, France, Canada, the Soviet Union, Poland, Czechoslovakia, and Rumania to study methods for detecting possible violations of an agreement on the cessation of nuclear tests.⁸

II. THE GENEVA CONFERENCE OF EXPERTS

Introduction

The experts met in Geneva from July 1 to August 21, 1958. They held thirty formal sessions plus several informal meetings at which detailed technical questions were discussed.

In the communique issued at the close of the conference, the group stated that it had come to several agreed conclusions. First,

. . . that the methods of detecting nuclear explosions available at the present time--namely, the collection of samples of radioactive

the present time a detailed study of the
 subject is required in order to determine
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debris, the recording of seismic, acoustic and hydro-acoustic waves, and the radio signal method, together with the use of on-site inspection of unidentified events which might be suspected of being nuclear explosions--make it possible, within certain limits, to detect and identify nuclear explosions, and it recommends the use of these methods in a control system.

Second,

. . . that it is technically feasible to set up, with certain capabilities and limitations, a workable and effective control system for the detection of violations of a possible agreement on the worldwide cessation of nuclear weapons tests.

Third,

. . . that the control system should be under the direction of an international control organ which would ensure the co-ordination of the activities of the control system and the functioning of the system in such a way that it would satisfy the necessary technical requirements.⁹

Following the issuance of the communique, the final report of the conference was issued. This report was divided into four sections: general background information, the basic methods of detection and identification of nuclear explosions, the technical equipment of the control system, and the control system.

Background Information

The first order of business after the conference convened was the selection of an agenda. On July 4th, the following agenda was adopted:

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various methods for detecting atomic explosions and on other general problems of the Conference deliberations.

2. Determination of a list of basic methods of systematic observations for phenomena indicative of an explosion.
3. A system for controlling the observance of an agreement on the cessation of nuclear tests.
4. Drawing up a report of experts to the governments of those countries represented at the Conference, with conclusions and suggestions regarding a system of controlling the observance of an agreement on the cessation of nuclear tests.¹⁰

In reaching their conclusions, the experts considered the natural phenomena which accompany nuclear explosions. These phenomena (such as, acoustic waves occur when there are explosions in air and in water; seismic oscillations that occur when there are explosions on the ground, under the ground, and under water; the radio pulses that are produced when there are explosions in the atmosphere; and the optical and gamma radiation when propagated over long distances), they said, "serve to indicate explosions and to estimate their time and place." Further, they continued, that when nuclear explosions occur in the atmosphere, radioactive debris is formed which mixes in the atmosphere and is dispersed over great distances. If a nuclear explosion is set off in the ocean or in the earth's crust, the radioactive debris will remain concentrated close to the place of the explosion for a considerable time. Because of these phenomena, they continued, modern instruments make it possible to detect

44 is hereby acknowledged and authorized by the undersigned to execute and deliver to the undersigned all documents and instruments necessary to carry out the purposes of this agreement.

nuclear explosions at considerable distances. Therefore, they contended, that explosions of high yield which are set off on the surface of the earth and in the lower atmosphere can be detected without difficulty at points remote from the site of the explosions. However, they added, that explosions of low yield can only be detected with good reliability if a specially set up control system is established.

As to this special problem of detecting small explosions, they said, this was so because of the many natural phenomena, earthquakes and thunder storms, which give similar signals or hinder the detection of the signals. They added that it was possible to discriminate between signals of natural events and explosions by careful analysis of the data from several stations. Those that remained unidentified "which could be suspected as being nuclear explosions might be resolved by inspection of the site."¹¹

The Conference considered the methods of detecting nuclear explosions by acoustic, hydro-acoustic, seismic oscillations, electro-magnetic oscillations and radioactive debris. Each of these methods was examined for its effectiveness and limitations. Following this, the Conference examined the question of the technical equipment

of the control system and the question of the control system as a whole.

Basic Methods of Detection and Identification of Nuclear Explosions

The experts analyzed the capabilities of five methods of detecting nuclear explosions.

Acoustic Waves. Nuclear explosions in air cause strong acoustic waves which propagate over large distances. The experts stated that the existing apparatus could detect an air wave from a 1-kiloton explosion at relatively large distances--downwind at a distance of 2,000 to 3,000 kilometers and upwind at 500 kilometers. Records from three stations would, they believed, make it possible to determine the location of the explosion with an accuracy of better than 100 kilometers. These methods were considered reliable at heights up to 30 kilometers and possibly even 50 kilometers. Deep underground and underwater explosions would not produce air waves "sufficiently intense for detection purposes." The hydro-acoustic waves produced by underwater explosions in oceans, however, could be detected at distances of about 10,000 kilometers.

Radioactive debris. Nuclear explosions in the air up to 10 kilometers produces radioactive debris which is carried by the wind to great distances. The experts believed that the most convenient conditions for the taking

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of samples of the debris would prevail between the fifth and the twentieth day after an explosion, when control posts at distances of 2,000 to 3,000 kilometers should be able to detect a 1-kiloton explosion "with a high degree of reliability." They added, however, that this method was less reliable for underground or underwater explosions. They also considered that aircraft would be useful, both in collecting samples of the air and in search for radioactive clouds that would be produced by nuclear explosions.

Seismic waves. Underground or underwater nuclear explosions produce waves that are propagated through the earth's crust. The experts recognized the difficulty of distinguishing seismic waves produced by nuclear explosions from those caused by earthquakes. Under conditions analogous to those of the United States Rainer shot, they believed that longitudinal seismic waves caused by an underground nuclear explosion of 1 kiloton could be detected, and the direction of the first motion (explosions cause the first movement of the earth to be in a direction away from the source, while earthquakes can often cause the first movement of the earth to be in a direction toward the source) could be determined, at stations considerably more quiet than average and under favorable noise conditions, at distances of 1,000 kilometers and also at 2,000 and 3,500 kilometers. At the same stations

but under noisy conditions, however, this method would be effective only for 5-kiloton explosions. The experts thought that 90 per cent of the earthquakes could be "distinguished from explosions with a high degree of reliability if the direction of first motion of the longitudinal wave is clearly registered at five or more seismic stations on various bearings from the epicentre" and under specified conditions that the area within which an epicenter was localized could be assessed as approximately 100-200 square kilometers. "For those cases which remain unidentified," they said, "inspection of the region will be necessary." By this, they meant that inspectors would have to make on-site investigation of the area where an unidentified event occurred in order to make a positive identification of it. They noted that methods of detecting underground nuclear explosions might be improved in the future by perfecting the technical equipment involved.

Radio signals. Atmospheric nuclear explosions give rise to powerful electromagnetic radiations. The experts stated that a 1-kiloton explosion could be detected by means of radio signals at distances exceeding 6,000 kilometers "assuming that in the neighbourhood of the receiving stations there is no high noise level from local thunderstorms or other sources." The similarity of signals from lightning flashes to those resulting from

nuclear explosions, however, made this method unreliable at great distances. The experts recommended further research on this subject.

High-altitude explosions. Nuclear explosions at altitudes higher than 30-50 kilometers present special problems. Theoretically and on the basis of preliminary data, the experts considered that gamma rays and neutrons produced by nuclear explosions at high altitudes could be registered with "properly instrumented" earth satellites. They also stated that it could be considered possible "to use the recording of ionospheric phenomena, using appropriate radio techniques, and of optical phenomena for the detection of nuclear explosions at high altitudes." They did not consider the problem of detecting nuclear explosions at distances of millions of kilometers from the earth.¹²

The Technical Equipment of the Control System

After this discussion of the methods of detection of nuclear explosions in various environments, the experts described the technical equipment needed at the control posts. They recommended that control posts on continents be equipped with apparatus "for the detection of explosions by the acoustic and seismic methods and also by the methods of recording radio signals and of collecting radioactive debris." Posts on islands or coastal areas should

also, in addition to the equipment for the methods above, be equipped with hydro-acoustic apparatus for detecting underwater explosions. Posts on ships should be equipped with apparatus for collecting radioactive debris and with hydro-acoustic equipment.

The apparatus installed at posts, they said, must be uniform, satisfy basic technical requirements and be designed for reliable continuous operation.

They further recommended that improved apparatus and techniques be actively developed and incorporated into the control system "for the purpose of continuously improving the effectiveness" of the system.¹³

The Control System

The experts concluded that it is technically feasible to establish a workable and effective control system with certain capabilities and limitations which would detect violations of an agreement to suspend nuclear weapons tests.

The control system, they said, should be under the direction of an international control organ which would perform the following functions:

1. The development, testing and acceptance of the technical equipment and stating the criteria for the siting of the control posts.
2. Making continuous and effective observations at control posts and on aircraft.

3. Establishment of reliable communications, using existing channels where suitable, between the control organ and the posts and air bases.
4. Arrange for means of transport for control post personnel and the staff of the international control organ.
5. Timely analysis and processing of data received from the control posts.
6. Timely inspection of unidentified events "which could be suspected of being nuclear explosions."
7. Staffing the control system with qualified specialists.
8. Assist in a scientific research program with the "aim of raising the scientific standard of the system."

Control posts network. The experts recommended a network of 170-180 control posts including 160-170 land control posts and 10 shipborne posts. About 100-110 posts would be situated in continents, 20 on large islands and 40 on small islands. Continental posts in aseismic areas (low earthquake occurrence areas) should be spaced at about 1,700 kilometers and in seismic areas (high earthquake occurrence areas) at about 1,000 kilometers. Oceanic posts would normally be spaced at 2,000 to 3,000 kilometers but the spacing between island posts in seismic areas would be about 1,000 kilometers. This would lead to the following distribution of control posts around the world: North America 24, Europe 6, Asia 37, Australia 7, South America 16, Africa 16, Antarctica 4, 60 control posts on

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islands and about 10 ships, for a total of 180 control posts.

Each control post would require about thirty specialists and some auxiliary personnel to staff and operate it. Their duties would include ensuring normal operation of the apparatus, preliminary processing of data and forwarding of this data to the control organization and the government of the host country.

In addition to the control posts, the experts concluded, that there would be regular aircraft flights over the oceans to check on radioactivity in the atmosphere. Additionally, in some cases there would be special flights over the territories of the United States, the United Kingdom, and the Soviet Union to collect air samples for checking on data obtained by other methods.

Additionally, the experts concluded, that when an event is detected which cannot be identified by the international control organ and which is suspected "of being a nuclear explosion" the international organ "can send an inspection group to the site of the event in order to determine whether a nuclear explosion had taken place or not."

Effectiveness of the control system. The experts estimated that the control system would have the following effectiveness:

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1. Good probability of detecting and identifying nuclear explosions of yields down to about 1 kiloton, taking place on the surface of the earth, and up to 10 kilometers altitude, and good probability of detecting, but not always of identifying, explosions taking place at altitudes from 10 to 50 kilometers.
2. Good probability of detecting nuclear explosions of 1-kiloton yield set off deep in the open ocean.
3. Good probability of recording seismic signals from deep underground nuclear explosions in continents equivalent to 1 kiloton and above.

The capability of the control system to identify underground nuclear explosions of 1-5 kiloton yield depends on: the small fraction of earthquakes that can be identified on the basis of data obtained from the control posts alone; the fraction of earthquakes that can be identified with the aid of supplementary data obtained from existing seismic stations; and the fraction of events still left unidentified which could be suspected of being nuclear explosions and for which the international control organ would carry out on-site inspections. They estimated on the basis of existing data that the number of earthquakes which would be undistinguishable on the basis of their seismic signals from deep underground nuclear explosions of about 5-kiloton yield could be in continental areas from 20 to 100 a year. The experts concluded that the control system would have great difficulty in obtaining positive identification of a carefully concealed deep

underground explosion but there would always be a possibility of detection of such a violation by inspection.¹⁴

Summary

The Conference of Experts had studied the capabilities and limitations of the various methods of detecting and identifying nuclear explosions in the various elements. They reviewed and recommended the technical apparatus that should be used in the various control posts. They studied and recommended the type of control system that should be established. The general conclusion reached by the experts was that it is technically feasible to set up, with certain capabilities and limitations, a workable and effective control system for the detection of violations of a possible agreement on the cessation of nuclear weapons tests.

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CHAPTER II - FOOTNOTES

¹"Letter from President Eisenhower to the Soviet Premier (Bulganin), January 12, 1958," Documents on Disarmament 1945-1959, Vol. II 1957-1959 (Washington: Government Printing Office, 1960), pp. 938-940.

²Decree of the Supreme Soviet Concerning the Discontinuance of Soviet Atomic and Hydrogen Weapons Tests, March 31, 1958," Documents on Disarmament 1945-1959, op. cit., pp. 978-980.

³"Letter From President Eisenhower to the Soviet Premier (Khrushchev) on Nuclear Tests, April 8, 1958," Documents on Disarmament 1945-1959, op. cit., pp. 982-985.

⁴"Letter From the Soviet Premier (Khrushchev) to President Eisenhower, May 9, 1958," Documents on Disarmament 1945-1959, op. cit., pp. 1036-1041.

⁵"Letter From President Eisenhower to the Soviet Premier (Khrushchev), May 24, 1958," Documents on Disarmament 1945-1959, op. cit., pp. 1043-1044.

⁶"Letter from the Soviet Premier (Khrushchev) to President Eisenhower, May 30, 1958," Documents on Disarmament 1945-1959, op. cit., pp. 1050-1051.

⁷"Letter From President Eisenhower to the Soviet Premier (Khrushchev), June 10, 1958," Documents on Disarmament 1945-1959, op. cit., pp. 1051-1052.

⁸"Aide-Memoire From the Soviet Foreign Ministry to the American Embassy: Geneva Experts Conference on Nuclear Tests, June 13, 1958"; "Aide-Memoire From the American Embassy to the Soviet Foreign Ministry: Geneva Experts Conference on Nuclear Tests, June 20, 1958"; "Aide-Memoire From the Soviet Foreign Ministry to the American Embassy: Geneva Experts Conference on Nuclear Tests, June 24, 1958"; "Aide-Memoire From the Soviet Foreign Ministry to the American Embassy: Geneva Experts Conference on Nuclear Tests, June 25, 1958"; "Letter From the American Ambassador (Thompson) to the Soviet Foreign Minister (Gromyko): Geneva Experts Conference on Nuclear Tests, June 26, 1958"; "Aide-Memoire From the Soviet Foreign Ministry to the American Embassy: Geneva Experts Conference on Nuclear Tests, June 28, 1958"; and "Aide-Memoire From the American Embassy to the Soviet Foreign Ministry: Geneva Experts Conference on Nuclear Tests, June 30, 1958," Documents on Disarmament 1945-1959, op. cit., pp. 1074-1084.

⁹"Communique and Report of the Conference of Experts To Study the Possibility of Detecting Violations of a Possible Agreement on the Suspension of Nuclear Tests, August 21, 1958," Documents on Disarmament 1945-1959, op. cit., pp. 1090-1091.

¹⁰Ibid., p. 1092.

¹¹Ibid., pp. 1092-1093.

¹²Ibid., pp. 1094-1103.

¹³Ibid., pp. 1103-1106.

¹⁴Ibid., pp. 1106-1111.

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CHAPTER III

CONFERENCE ON THE DISCONTINUANCE OF NUCLEAR TESTS

OCTOBER 31, 1958 - JANUARY 29, 1962

I. BACKGROUND

Immediately following the successful conclusion of the Conference of Experts on August 22, 1958, President Eisenhower and the British Government issued statements calling for further negotiations for an agreement with other nations which have tested nuclear weapons for the suspension of nuclear weapons tests and the actual establishment of an international control system on the basis of the experts' report. As part of the agreement to be negotiated, they said, the United States and the United Kingdom were prepared to suspend testing on a year-by-year basis subject to a determination at the beginning of each year that: the agreed inspection system is installed and working effectively; and satisfactory progress is being made in reaching agreement on and implementing major and substantial arms control measures. The statements declared that Western negotiators would be ready to open negotiations on October 31, 1958, in Geneva.¹

On August 30, 1958, the Soviet Union agreed to commence negotiations with the United States and the

United Kingdom on October 31, 1958, in Geneva and that the conference be fixed for a period of two to three weeks.²

In a note to the Soviet Union on September 10, 1958, the United States agreed to hold the conference at Geneva on October 31, 1958; but because of the importance of the negotiations, they should be continued for whatever time may be mutually deemed necessary for their successful conclusion.³

The Moratorium

As part of their statements on August 22, 1958, the United States and the United Kingdom agreed to stop testing of nuclear weapons for a period of one year from the beginning of the negotiations. On November 1 and 3, after the Conference had convened, the Soviet Union exploded nuclear devices. President Eisenhower in a statement on November 7, 1958, declared that this action by the Soviet Union had relieved the United States from its voluntary obligations not to test. However, he added: "we shall continue suspension of such tests for the time being, and we understand the United Kingdom will do likewise. We hope that the Soviet Union will also do so."⁴ No more Soviet atmospheric tests were held and the voluntary moratorium was observed by the Nuclear Powers until August 30, 1961, when the Soviet Union resumed testing.

Procedure

For purposes of analysis, the Conference on the Discontinuance of Nuclear Weapon Tests is broken down into ten natural periods. There were 353 formal sessions held in private session. The agreed articles of a treaty relating to the prohibition of nuclear weapons test explosions are included in Appendix A. All meetings were held at the Palais des Nations in Geneva, Switzerland.

II. THE FIRST PERIOD OCTOBER 31, 1958 - DECEMBER 19, 1958

Introduction

The Conference on the Discontinuance of Nuclear Weapon Tests convened on October 31, 1958, in Geneva, Switzerland, with the United States, the United Kingdom, and the Soviet Union represented. Twenty-eight formal meetings were held in private session.

The major issues discussed by the Conference during this period were: the agenda; Western views on effective control; the Soviet position on control; the control organization; and the discussion and adoption of several articles for a treaty relating to the prohibition of nuclear weapons tests.

Introduction

The purpose of this study is to determine the effectiveness of the various methods of teaching English as a second language. The study was conducted in a high school in the city of New York. The subjects were 100 students who were in the 10th grade. The study was conducted over a period of six months. The results of the study are presented in the following chapters.

CHAPTER I. THE PROBLEM AND THE PURPOSE OF THE STUDY

CHAPTER II. THE REVIEW OF LITERATURE

Chapter I

The purpose of this chapter is to present the background of the study. It will discuss the importance of English as a second language in the United States. It will also discuss the various methods of teaching English as a second language. The chapter will conclude with a statement of the purpose of the study.

The major purpose of this study is to determine the effectiveness of the various methods of teaching English as a second language. The study was conducted in a high school in the city of New York. The subjects were 100 students who were in the 10th grade. The study was conducted over a period of six months. The results of the study are presented in the following chapters.

CHAPTER III. THE DESIGN OF THE STUDY

Search for Agenda

At the first meeting, the Soviet representative introduced a short draft agreement providing for the immediate discontinuance of nuclear weapons tests but which included only a statement that a control system would be established on the basis of the experts' report.⁵

The Western representatives rejected this proposal and proposed that the Conference begin with an examination of the control organization.⁶

Thus, two opposing agendas were suggested: the Soviet Union wanted agreement on suspension of tests first followed by negotiation on a control system; the West wanted to spell out the control system first to be included in the agreement.

Debate on the selection of an agenda occupied the first fifteen meetings and was finally broken when the United States representative suggested that "the best way to move forward from this point is to try to focus our discussion more clearly through consideration of texts of suggested treaty articles which clearly embody the positions which we think are essential."⁷

During the agenda debate in addition to the Soviet draft agreement, the United States submitted a working paper on a treaty on Discontinuance of Nuclear Weapon Tests, including establishment of an effective

international control organization.⁸ The United Kingdom submitted two papers: one on some of the initial points requiring consideration in the setting up of an effective international control organization for supervising the observance of an agreement on the discontinuance of nuclear weapons tests, and one on some points not covered in the conclusions of the Conference of Experts requiring consideration in the setting up of an effective international control organization.⁹

Initially, the Soviet Union argued for two separate agreements: one on the discontinuance of testing, and another on the establishment of the control organization. Finally, on November 29, 1958, at the 15th meeting they declared, in spite of their continuing preference for a test ban agreement with a separate protocol on control, the Soviet Union was willing to include the control provisions in the agreement on the cessation of tests. However, they continued to attack the Western position calling for a year-by-year agreement linked to progress in general disarmament.¹⁰

Thus with the Soviet acceptance of one all-inclusive agreement and the United States representative's suggestion on procedure, the deadlock on an agenda was broken by proceeding without one to consideration of individual articles of a comprehensive treaty.

Western Views on Effective Control

At the 17th meeting, the United States representative outlined the Western views on the type of control organization which should be set up to implement the system recommended by the experts.

First, the organization should be responsible to a commission or board made up of representatives of the three Powers plus a small number of other States participating in the organization. This commission should be responsible for establishing the necessary procedures for the installation, operation, and improvement of the data-gathering facilities in accordance with the agreement. Further, they would also maintain a continuous review of the functioning of the system and the analysis of the data collected by it. It would authorize nuclear detonations for peaceful purposes and make findings on violations of the agreement. It would appoint an administrator who would direct the system. This commission would operate as a permanent body on continuous call.

Second, there should be a conference of parties which would periodically review the general operation of the system.

Third, an administrator appointed by the commission and responsible to the commission would be the chief executive officer of the system. He would be responsible for

implementing the procedures established by the commission for the system and for the analysis of the data which it collects in order to determine whether or not violations of the agreement have occurred. To this end, the administrator and his staff would determine, subject to the approval of the commission, the equipment, construction and location of control posts and other facilities; select and train personnel for the manning of such facilities, and for inspection groups; make technical findings from the data so collected; dispatch inspection groups and special flights; and analyze the results which they obtain.

Fourth, a headquarters must be established to provide the administrator with a mechanism to direct an effective overall operation of the system. This would also include a data analysis center and a central laboratory. Further, because the administrative and logistic problems would be too great, there would be ten regional offices which would provide support for ten or twenty controls posts and aircraft facilities. The organization would have the right to maintain an independent radio network, operated by its own staff, connecting the headquarters with individual control posts, inspection groups and air facilities.¹¹

Soviet Position on Control

At the 21st meeting on December 8, 1948, the Soviet Union clarified its position on control. It stipulated

that the Commission would make decisions on all important questions by unanimous agreement among the United States, the United Kingdom and the Soviet Union. Further, the staff of each control post was to be recruited from the nationals of the territory on which it was located; and the director of the post would be a representative of the host country; and a chief control officer would represent the other side. On aircraft sampling flights, one control officer would go along from the other nuclear side. Special flights would be made to collect air samples over the territory of States with the participation of a representative of the Commission, by decision of the Commission in aircraft of such States along routes determined in advance and agreed upon with the governments of such States.¹²

The Control Organization

Western principles on the control organization. At the 23rd meeting on December 11th, the United States representative explained that the control organization must be built on three basic principles:

First, "operation on the basis of majority vote in the Control Organization." He said that the utilization of the Soviet idea of requiring a unanimous vote of the three powers in the Commission would have the effect of a veto provision.

Second, "international rather than national operation of the detection and identification system." The Soviet proposal for national operation imposes more rather than less opportunity for partiality and possible obstruction than would be the case with a true international staff, added the United States representative.

Third, "minimization of the number of political decisions required in the day-to-day operation of the control organization." By this he explained that the United States meant that the basic political decisions would be incorporated in the treaty itself. He continued that

. . . now is the time, to reach and record as fully as we can practicably do the fundamental decisions as to how this organization should operate. When it is in operation it should be on a basis of timely operation, and timely operation requires that points within the process at which new political decisions are required should be minimized.¹³

Soviet view on the control organization. At the 246 meeting on December 12th, the Soviet representative rebutted the United States statement of basic principles and denied that the Soviet proposals would obstruct the control organization. He stated that the Soviet proposals were based on the concept of cooperation: firstly, between the States taking part in the control system; and secondly, between the control organization and each State party to the agreement. The control organization, he

continued, cannot function without substantial day-to-day assistance of each State party to the agreement and active collaboration on the part of States. He further added that, because the possibility of a violation of a treaty is so serious, no part of the organization should make the final decision except the highest organ, the Control Commission. Further, he continued, the Commission must give thorough examination to evidence submitted by the suspected State to clear itself.

In relation to international staffing, he said, that the Western proposals were based not on technical considerations but on political considerations.¹⁴

United States submits draft articles on the control organization. At the 25th meeting on December 15, the United States representative submitted for consideration of the Conference draft articles on the duties, functions, and responsibilities of the control organization. These articles (Article VI on the Control Commission, Article VII on the Conference of Parties, Article VIII on the Detection and Identification System, and Article IX on the Administrator and his staff) incorporated the views of the United States which had been set forth in the Conference.

At the 26th meeting on December 16, the United States representative submitted for consideration of the

Conference, a draft Annex I on the Installation, Operation and Improvement of the Detection and Identification System.

Adoption of Treaty Articles

Article 1. At the 20th meeting on December 6, Article 1 was adopted. It was adopted from the Soviet draft agreement proposal and the United States draft treaty working paper proposal. It prohibited the parties from carrying out nuclear tests and to refrain from causing, encouraging or in any way participating in nuclear tests anywhere.¹⁵

Article 2. At the 21st meeting on December 8, Article 2 for a treaty relating to the prohibition of nuclear weapons tests was adopted by the Conference. It was adopted from the Soviet draft agreement proposal and the United States treaty working paper proposal. The article established a control organization and obligated the Parties to the treaty to cooperate "promptly and fully with the control organization" in the carrying out of its duties in accordance with the provisions of the treaty.¹⁶

Article 3. At the 24th meeting on December 12, Article 3 for the proposed treaty prohibiting nuclear weapon tests was adopted by the Conference. This article was adopted from the United States draft treaty working paper proposal. It established the control organization which would consist of a Commission; a Detection and

Identification System; and Administrator; and a Conference of Parties.¹⁷

Article 4. At the 27th meeting on December 17, Article 4 for the proposed treaty was adopted. The article was proposed by the United Kingdom at the 19th meeting. The article set forth the composition of the Commission. It provided that the Commission would consist of one representative from the United States, the United Kingdom, and the Soviet Union as permanent members, plus four other members elected by the Conference of Parties for two year terms.¹⁸

Summary

The problem of the agenda which presented the Conference with an initial deadlock was solved by proceeding without one. Four treaty articles were adopted without too much debate. The initial debate on the control organization which was held during this period brought out major disagreement over voting procedures in the Commission, duties and powers of the Administrator, staffing, and inspection.

The United States continued to press for a year-by-year agreement tied to progress in the field of disarmament, whereas the Soviet Union wanted an unlimited agreement completely separate of other issues.

Committee (Internal and External) and a Committee

of Experts.

Article 4. At the first meeting on December 17,

Article 4 of the Convention shall be signed. The article

was proposed by the United Kingdom at the first meeting.

The article set forth the composition of the Committee.

It provided that the Committee would consist of six repre-

sentatives from the United States, the United Kingdom, and

the United States as permanent members, and that when

members elected by the Government of each of the four

States.

Summary

The purpose of the study was to determine the im-

portance of the initial meeting and to determine

whether or not the initial meeting was a success.

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The United States Committee on the Initial Meeting

was organized to study the progress in the field of

the initial meeting and to determine the progress in

the initial meeting of the initial meeting.

Some progress had been made, but the differences in the two positions brought out in this initial period indicated a great deal of negotiation would be necessary before they could be brought close enough to reach agreement.

III. THE SECOND PERIOD JANUARY 5, 1959 - MARCH 20, 1959

Introduction

The second period commenced on January 5, 1959, and covered forty-four formal meetings. Three minor draft articles were adopted during this period. Discussion centered around several general topics: new data on underground explosions submitted by the United States; on-site inspection and inspection groups; control post and headquarters staffing; the Soviet veto list; nuclear detonations for peaceful purposes; and elective positions on the Control Commission.

Submission of New Data on Underground Testing

At the first meeting of this period on January 5, 1959, the 29th meeting of the Conference, the United States representative circulated as a Conference document a working paper on new seismic data stating the preliminary results of United States tests held in October 1958. This new data, he said, failed to confirm the conclusions of

the Geneva Conference of Experts in relation to the detection of underground tests. Referring to the preliminary report of President Eisenhower's Science Advisory Committee which analyzed the new data received from the October tests, he declared, they concluded that the method recommended by the Geneva experts for distinguishing earthquakes from explosions, the direction of the first motion of the seismic signal as observed by several stations, was less effective than the experts believed. Further, the new data also showed that the seismic signals produced by underground explosions would be smaller than had been anticipated and that there were, therefore, about twice as many natural earthquakes equivalent to an underground explosion of a given yield as had been estimated by the Conference of Experts. The Committee concluded, he continued, that the total number of unidentified seismic events with energy equivalents larger than 5 kilotons might be increased 10 times over the number estimated by the experts.

Based on the preliminary findings of this new data, the United States representative requested a working group of experts of the three Powers be established by the Conference to study and analyze this new data.¹⁹

Soviet views on new scientific data. The initial Soviet reaction to the introduction of this new scientific

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 which reported the fact that the Government
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data was one of suspicion. They viewed it as a Western trick to get "inspection group after inspection group roaming all over a country."²⁰

At the meeting on January 7, the Soviet representative gave a fuller critique on the new scientific data submitted by the United States. He refused to accept it as the basis for further technical discussion by the Conference, and reaffirmed their view that the technical basis for the Conference was adequately covered by the conclusions and recommendations of the Conference of Experts. However, he said, they did agree that additional data which was derived by experimentation should be submitted to the control organization to be established by the treaty. He concluded, that the stage of technical study was behind and the main task at the present time was to work out a political agreement.²¹

Continuing debate. On January 23 at the 41st meeting, the United States representative reviewed the Soviet position on the new data and said that he could not accept the premise that new scientific information should be deferred for consideration by the control organization when it is established.²²

The Soviet Union still refused to consider the new data by a technical working group. The United States did not continue to press for a technical working group during

1965 was the year of the "Great Migration" when many of the best and brightest of the young men of the South moved to the North and West. This was a time of great change and opportunity, and it was a time when the South was beginning to open up to the world.

[illegible]

17. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California:

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 It is suggested that the Commission be authorized to conduct such investigations as may be necessary to determine the extent of the problem and to develop a plan of action to deal with it.

The United States will continue to support the UN effort to achieve a peaceful settlement of the Arab-Israeli conflict. The United States will continue to support the UN effort to achieve a peaceful settlement of the Arab-Israeli conflict.

this period, but held the proposal for future consideration.

Western Powers Drop Disarmament Tie

At the 37th meeting on January 19, 1959, the United States and the United Kingdom made a major move toward reaching agreement. They agreed to drop their insistence that "the duration of the treaty be made conditional upon progress in other fields of disarmament." However, they still retained the condition that the continuation of the agreement would be dependent on the effective operation of the control organization.²³

On-Site Inspections and Inspection Groups

The question of on-site inspections and inspection groups was given extensive debate during this period.

Western views on on-site inspections and inspection groups. The Western position on on-site inspection was for permanent inspection teams or groups that would be promptly dispatched on the basis of pre-determined criteria and were an essential element of the control system to deter a potential violator of the agreement. Further, on-site inspections were recommended by the Conference of Experts in order to establish the origin or nature of detected events which could be suspected of being of nuclear origin.

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On January 28th at the 44th meeting, the United States representative outlined the United States position on inspections and inspection groups. He said:

We believe in international staffing and we believe that no nationals of the State within which an inspection group will operate should be included as a member of the regular operating inspection staff. We believe that the required number of inspection groups, fortified with the necessary professionally trained personnel and their own technical equipment, their own transportation, and their own communication facilities, would strengthen the scientific and technical capability of the group. We believe that these groups should be formed on a permanent basis and based so as to be immediately available for dispatch to the sites of incidents which could be suspected of being nuclear origin as soon as possible when it is determined they are required. We would like to have the permanently established inspection groups authorized to initiate prompt inspections when the research and analysis center of the headquarters of the system concludes that an event meets the criteria laid down in the treaty and its annexes as constituting a requirement for inspection. We believe that such prompt action is the only possible way to implement the conclusions of the Geneva experts' report which recommends timely inspection of unidentified events which could be suspected of being nuclear explosions.²⁴

The United States representative concluded by saying the United States could not accept the Soviet proposal for staffing the groups with nationals of the host country with some "controllers" assigned by the control organization. Further, it could not accept the Soviet contention for groups to be established on an ad hoc basis nor the procedures outlined by the Soviet Union for the dispatching of the teams.²⁵

Soviet critique of Western position. The Soviet

reply to this United States declaration centered around the argument that the sending out of inspection groups was a serious political decision that could not be taken automatically. Further, they said, the reply of the country being questioned must be considered before action is taken and it would be "naive" to consider that an inspection group would be able to go to the suspected place without permission of the suspected State.²⁶

Soviet views on inspection and inspection groups.

At the 45th meeting on January 29, 1959, the Soviet representative put forth the Soviet views on inspection and inspection groups. He declared that inspectors should be chosen from lists of names registered with the Control Commission by each country and include foreigners as well as nationals of the host country; most of the equipment, except for some specialized equipment, would be furnished by the country on whose territory the inspection was being carried out; and an equal number of nationals should accompany the inspection group to represent the country being inspected.

The Soviet represented these views on inspection groups was guided by two basic principles. First, the individual character of each inspection; and second, the need for inspection groups to act in close cooperation

very to the same effect. The fact that the
the argument that the United States is not
a better political system than ours is not
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with the government or authorities of the State on whose territory the inspection is being carried out.²⁷

At the 48th meeting on February 3, the Soviet representative continued that the Soviet Union did not fear inspection but demanded a veto over dispatch of inspection groups because:

the fact is that, if decisions are reached by the Control Commission without agreement between the nuclear Powers, the despatch of inspection teams might be transformed into an instrument of the cold war, a means of collecting intelligence data, and therefore a source of danger to the interests of national security.²⁸

Continuing debate. The debate continued but no amount of Western discussion could change the Soviet view that the reporting of an unidentified event was a political accusation against the State on whose territory the event occurred. Therefore, the Soviets contended, only the Control Commission could dispatch an inspection team and that agreement among the three Powers was necessary to prevent abuse of the powers of the Commission.

The Western representatives considered on-site inspection to be a key factor of the control system to deter or uncover would-be violators of the treaty. Therefore, they considered that no nation should have the means of obstructing the timely dispatch of inspection teams to determine if a violation had occurred. They said, this fact was concurred in by the Conference of Experts in their conclusions and recommendations.

with the Government of the United States of America
 Secretary of the Department of the Interior
 At the meeting on January 11, 1907, the
 Committee considered the report of the
 Department and decided to recommend to the President

that the land is not a public land, but is
 owned by the United States of America, and
 should be retained as a public land, and
 should be sold to the United States of America
 for the purpose of establishing a national
 monument.

Executive Order. The United States of America
 hereby declares that the land is not a public
 land, but is owned by the United States of America,
 and should be retained as a public land, and
 should be sold to the United States of America
 for the purpose of establishing a national
 monument.

Approved: _____
 The United States of America
 at the City of Washington, D.C., this _____ day of _____, 1907.
 Secretary of the Department of the Interior

Witness my hand and the seal of the Department of the Interior at the City of Washington, D.C., this _____ day of _____, 1907.

However, although on-site inspection and inspection groups were the topic of a great deal of discussion, not much progress was made and the initial differences remained at the end of this period.

Control Posts and Headquarters Staffing

The problem of staffing was also given a great deal of discussion. The different positions were aired and clarified, but wide differences on various aspects of staffing were brought to light.

The Western Position. The initial position of the West was that control posts be internationally staffed and that no nationals of the host country could serve in a technical or supervisory capacity.

At the 38th meeting, the United States representative clarified the Western position when he said that personnel at the control posts could come from any country except the host country and that the restriction on nationals only applied to the technical personnel. He further stated that the Western position on international staffing was guided by three principles. First, that selection should be on the basis of technical qualifications and skill. Second, on the widest basis of geographical distribution. Third, selection of candidates should come from those countries which have the greatest interest, this meant major selection from the three nuclear powers.

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The purpose of this study was to determine the effect of the different conditions on the growth of the different strains of the bacteria.

As to actual selection, he said this should be done by the Administrator within guidelines established by the Control Commission. He added that the major nuclear powers might be given the opportunity to satisfy themselves that the operation of a control post was in accordance with the treaty by the use of observers.

On January 26th at the 42nd meeting, the United Kingdom representative submitted tables showing how different kinds of control posts might be staffed under the Western proposals. The approximate formula used by the United Kingdom in drawing up the tables was that one-half of the technical personnel of the control post would be from either side of the Nuclear Powers, depending on the location of the control post. The other half would be filled by other countries' nationals, except nationals of the host country. Additionally, each post would have one communication post filled by the Nuclear Powers and the seven other communication posts would be filled by nationals of other countries except nationals of the host country. The twenty-one administrative and service positions would be filled by the host country. In countries other than the three Nuclear Powers, the distribution of technical positions would be on the basis of thirds: one-third for the United States or United Kingdom, one-third

for the Soviet Union and the other third for other countries other than the host country.³⁰

The Soviet Position. The initial Soviet position on staffing of control posts was that all personnel at the control posts should be nationals of the host country except for one "controller" to represent the other side.

The Soviet Union would not agree to having the administrator select the staff and expressed the thought that he could not be so fair minded so as to look after the interests of all parties to the treaty.³¹

The Soviet reaction to the proposed Western staffing tables was that they would be half Western and half international and this meant that it would be to the advantage of the West. The Soviet representative at the 42nd meeting argued that

how was the host country to know that data was used honestly or not fabricated for provocative purposes.

However, he did propose, that the number of "controllers" could be increased from one or two to four or five.³²

On February 2, 1959, at the 47th meeting, the Soviet Union introduced their own staffing table. This table showed that out of a total of thirty personnel at a control post, there would be ten or eleven senior specialists, of these four or five would be foreigners. The remaining nineteen or twenty would be "technicians, operators or

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familiar smell of the city, the same as I had experienced in
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the past.

mechanics." The Soviet representative remarked on the basis of the Soviet staffing tables,

under our latest proposal 50 percent or nearly 50 percent of the highly qualified engineering personnel who would act as controllers at each post would be representatives of the other side - in other words, international or foreign personnel.³³

Headquarters staffing. At the 46th meeting on January 30, 1959, the Soviet Union outlined its views for the recruitment of technical personnel for the technical set-up of the Control Commission. Recruitment, they said, should be on the basis of parity,

namely, the staff of the technical set-up of the Control Commission should be recruited from among a number of specialists possessing the necessary technical qualifications, so that half the positions in each section of the technical set-up will be filled with specialists recommended to the Control Commission by the Soviet Union, while the other half of the positions will be filled by specialists recommended by the United States and United Kingdom.³⁴

They added that personnel recommended did not have to be nationals of the sponsoring State.

On March 5, 1959, at the 58th meeting, the United States representative proposed that the principle of international staffing could be applied by the Administrator to appoint one-third of the staff from Soviet Union nationals, one-third would be nationals of the United States or the United Kingdom, and the remaining one-third "should be international in character, exclusive of nationals of the three nuclear powers." Further, he added that if a

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supervisor in an important position were to be a national of one side, the deputy could be a national of the other.³⁵

The Soviet Union rejected this Western proposal after the United States declared that the last third would be appointed strictly on the basis of technical competence and geographical distribution. The Soviet representative declared that this proposal would thus provide a means of gaining control of the control organization by the Western Powers and, therefore, the Soviet Union could not accept it.³⁶

Continuing Disagreement. The controversy continued and the differences boiled down to disagreement over the role of the staff in the control organization. The West was primarily concerned with the obstruction or suppression of data if the posts were manned by nationals and the means to build confidence in the system as much as possible. The Soviet Union was concerned that if the posts were staffed by primarily foreigners, they could fabricate or misinterpret evidence detrimental to the host country and in insuring equal representation on the headquarters staff to prevent domination by one side or the other.

The Soviet Veto List

A controversy had arisen in the debate over Article 5 of the treaty which defined the procedural methods of

agreement in an American position was to be a national of the state, the treaty would be a national of the state.

The Soviet Union rejected this Western proposal after the United States declared that the Soviet Union would be responsible for the state of technical cooperation and development. The Soviet representative declared that this proposal would provide a system of mutual control of the Soviet Union by the Western powers and, therefore, the Soviet Union would not accept

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Unlimited Disposition. The contrary position

and the difference being shown in the following text of the treaty in the Soviet representative. The text was jointly composed with the intention to support the idea of state in the future with regard to national and the state to which conditions in the system as such as possible.

The Soviet Union was concerned that in the past years events by jointly developed. They could have been maintained without technical in the Soviet country and in having equal representation in the development of the system. The Soviet Union was not to be the other.

The Soviet Union 1947

A summary of the Soviet Union in the past was given in the first volume of the Soviet Union for technical studies in

the Control Commission. The Soviet Union wanted the Commission to take action on substantive matters only with the concurring vote of the three Nuclear Powers. The Western Powers would not accept this in such general terms.

On January 30, 1959, the representative of the Soviet Union submitted to the Conference for consideration a draft amendment to the draft Article 5 on the procedures of the Control Commission. This amendment which became known as the Soviet veto list read as follows:

Decisions of the Commission shall be made by not less than four affirmative votes of the members of the Commission, including the affirmative votes of the original parties to the Treaty - the USSR, the USA and the United Kingdom - on the following matters:

- (a) revision of the Treaty and its annexes, and adoption of amendments thereto;
- (b) any accusation against a State of a violation of the Treaty, and other matters relating to violations of the Treaty;
- (c) appointments of the Administrator, definition or alteration of his terms of reference, recruitment of the main engineering and technical personnel of the Control Organization's headquarters, controllers and inspection groups;
- (d) adoption of a decision to dispatch inspection groups for on-site investigation of an event suspected of being a nuclear explosion, and adoption of decisions on the basis of the results of such investigation;
- (e) revision of existing methods and approval of new methods of observation and types of apparatus in the control system;
- (f) determination of location sites of the control posts and of the routes for control aircraft flights;
- (g) budgetary, financial, administrative and economic matters connected with the Control Organization's activities, including matters relating to the recruitment and dismissal of the supporting and auxiliary personnel.

Decisions of the Commission on procedural matters shall be made by a majority vote of the members of the Commission.

Each member of the Commission shall have one vote.³⁷

Western reaction. The initial Western reaction was put forth by the United States representative when he said, "I am sorry to have to say that many of our understandings and misgivings about how the Soviet delegation would propose to have the system work have been confirmed."³⁸

Soviet reply. The Soviet rebuttal to the initial Western response was

that the Soviet Union has insisted . . . that any decision on the question of control must ensure equality for the Soviet Union within the control organization and equal possibilities for the Soviet Union in regard to the implementation of control through the organization which is to be set up.³⁹

Western critique of Soviet veto list. At the 49th meeting on February 5, the United Kingdom representative made a detailed analysis of the Soviet veto proposal. He indicated that the Western Powers recognized the possible unanimous agreement on certain items on the list; namely, revision or amendments of the treaty; revision of existing methods and equipment; and determination of location sites and routes of aircraft flights. However, he was very explicit in rejecting the veto over treaty violations, on-site inspections, and staffing.⁴⁰

Continuing debate. A great deal of debate followed the introduction of the Soviet veto list and brought the

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the status of the land owned by the United States in the State of Alaska:

and report to the Board of Directors. However, in the early
months of 1964, the Board of Directors was informed that
the company was planning to acquire the assets of the
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the company was planning to acquire the assets of the
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After the meeting, the following was discussed:

negotiations to the first major crisis. This view was clearly indicated by the United States representative on February 5 when he said,

the issue is clear. That issue is whether the Soviet Government is prepared to enter into a safeguarded agreement on the discontinuance of nuclear weapon tests. If the Soviet Government continues to insist on a voting formula in the commission which would render the control organization utterly impotent, then indeed we cannot see a successful outcome of our negotiations.⁴¹

On March 2 at the 65th meeting, the United Kingdom representative summarized the Western position in reference to the Soviet veto list. He said:

We agree with the Soviet delegation that the unanimous consent of the three original parties should be required for the entry into force of amendments to the treaty and its annexes, including amendments affecting the terms of reference of the administrator as laid down in the treaty and also amendments which would alter the actual treaty provisions on techniques of control. But we do not agree that there should be a vote in the commission on these subjects . . . should be covered by our draft article on amendments to the treaty.

Secondly, we are prepared, subject to certain conditions which I have stated, to give the original parties a veto on the appointment of the administrator and on siting of control posts and routing of aircraft flights.

Thirdly, we do not agree at all with the rest of the Soviet list. In particular, we are absolutely opposed to the provision . . . relating to violations of the treaty and to on-site inspection. On these subjects we do not wish to possess the right of veto ourselves. We want neither an individual right of veto nor an automatic majority in the commission which would give the United States and the United Kingdom jointly a voting power equivalent to a veto. We do not want that. Neither do we agree that the Soviet Union should possess the unilateral right of veto and thus have the unilateral right of imposing its own will on all the other parties.⁴²

negotiations between the United States and the Soviet Union. This was the first time that the United States had been so directly involved in the negotiations.

January 7, 1945, at Moscow.

The Soviet Government is deeply interested in the negotiations between the United States and the Soviet Union. It is the Soviet Government's policy to maintain the peace and to prevent the outbreak of a new world war. It is the Soviet Government's policy to maintain the peace and to prevent the outbreak of a new world war. It is the Soviet Government's policy to maintain the peace and to prevent the outbreak of a new world war.

On January 7, 1945, at the Moscow meeting, the United States and the Soviet Union discussed the negotiations between the United States and the Soviet Union.

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The Soviet Union replied on March 4 that they agreed with some elements of the United Kingdom's statement on March 2 and that there might be some basis for discussion whereby the comprehensive list put forth by the Soviet Union would not be necessary.⁴³

With the introduction of the Soviet veto list, the differences of positions in relation to the concept of the organization, functions and duties of the control organization became apparent between the two sides.

Nuclear Detonations for Peaceful Purposes

On January 30th at the 46th meeting, the United States representative introduced a draft treaty article titled "Detonations for Peaceful Purposes," which outlined the means to be incorporated into the treaty to permit peaceful nuclear detonations under appropriate control safeguards. Under this proposal, the nuclear devices to be used in peaceful uses explosions would be placed in a depository on or before the date of entry into force of the treaty and then be kept under continuous surveillance by representatives of the control organization until detonation. The control representative could inspect any parts that were replaced during the surveillance period, but they would not be permitted to inspect the internal design of the device. The proposal also provided that other devices could be used, but that the party exploding the device

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must in this case permit full internal and external examination of the device by representatives of the other original parties.⁴⁴

Soviet response to peaceful detonation proposal.

The initial Soviet response to the draft article on peaceful detonations of nuclear explosions was that they preferred to prohibit absolutely the explosion of nuclear devices for any purposes whatsoever because the results of any explosions, can be used in any case for further increasing the destructive force of atomic and hydrogen weapons. The Soviet representative further stipulated that if the West demanded the right for peaceful explosions then the Soviet Union would demand equal right to the same number that the United States and the United Kingdom together detonate.⁴⁵

On February 23, the Soviet representative made a formal reply to the proposal. He declared that the draft article provides a loophole for a country to continue nuclear weapons tests under the guise of nuclear explosions for peaceful purposes. This could be accomplished, he said, because the draft article does not allow internal inspection of the mechanism; thus, external inspection will not give the inspectors any guarantee that a new nuclear device is being exploded in an old outward form. The Soviet representative then introduced a Soviet draft

article concerning nuclear explosions for peaceful purposes. This article proposed a limited and mutually agreed number of nuclear explosions for peaceful purposes. Such explosions to be carried out on a one-for-one basis. The following conditions would also have to be met: submit beforehand to the other original parties to the treaty a complete description and the blueprints of the construction of the device to be exploded; permit the inspection of the internal and external construction of the device to be exploded; carry out strict international control on the site of the explosion with the mandatory participation of representatives of all the States, original parties to the treaty; submit all data obtained as a result of the explosion to the original parties.⁴⁶

No further action on these two draft articles on peaceful detonations of nuclear explosions.

Composition of the Control Commission

It had been previously agreed with the adoption of Article 4 of the proposed treaty that the Control Commission would consist of the United Kingdom, the Soviet Union, and the United States, plus four other States chosen by the Conference of Parties. At the 52nd meeting on February 11, the Soviet Union proposed that the four other seats be distributed to give each side equal representation. They recommended a 3-3-1 representation. By this formula the

Soviet Union would get three seats, the United States and the United Kingdom three seats, and the last seat would be given to a neutral mutually acceptable to both sides.⁴⁷

Debate over this proposal. The Western answer to this proposal was that the Western Powers would be prepared to discuss a mutually acceptable formula for composition of the Commission which would guarantee that neither side would be able to dominate the Commission if the Soviet Union would agree to drop the veto. The Western Powers then proposed that the four seats be allotted, one to a Soviet ally and one to a Western ally, and the other two seats to countries not committed to either side.⁴⁸

The Soviet representative rejected this Western proposal because it would give the West more seats than the Soviet bloc. He reaffirmed the Soviet position that the control organization should be organized on equal representation or parity for the two sides. Therefore, he said, the Soviet 3-3-1 proposal would be a more representative body to enjoy the appropriate authority in our international relations.⁴⁹

Thus, the Conference had two counter proposals on the composition of the control Commission also.

Adoption of Draft Treaty Articles

On March 19th at the 72nd meeting, the Conference formally adopted three articles for the treaty on the

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

THE NATIONAL ARCHIVES HAS BEEN ADVISED THAT THE
RECORDS OF THE NATIONAL ARCHIVES ARE NOT
AVAILABLE FOR RELEASE AT THIS TIME.

There is no doubt that the Commission is a very important body, and it is very important that it should be able to carry out its duties in an efficient and effective manner. It is therefore essential that the Commission should be able to obtain the necessary information and resources to enable it to do so.

The Soviet representative on February 24, 1954, stated that the Soviet Union is not in a position to make any concessions in the Far East, and that the Soviet Union is not in a position to make any concessions in the Far East.

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prohibition of nuclear weapons tests. The article on duration, the article on periodic review of the system, and the article on registration of the treaty.⁵⁰ These articles were all procedural articles and did not constitute any area of disagreement but they did add to the growing list of treaty articles adopted by the Conference as it moved closer to agreement.

Summary

At the close of this period, various elements of a Treaty on the Discontinuance of Nuclear Weapons Tests were beginning to take shape. Many draft articles had been put before the Conference for consideration; some had already been adopted without substantial disagreement. However, the basic differences on the elements of control continued to keep the Conference from reaching full agreement on a Treaty. Some progress had been made; many of the differences had been brought out into the light; but many of the issues were fundamental, and a great deal of negotiation would be required to bring the positions closer so that agreement could be reached.

IV. THE THIRD PERIOD APRIL 13, 1959 - MAY 8, 1959

Introduction

The third period commenced on April 13, 1959, after an Easter recess from March 20. Until the Conference was

recessed on May 8th, they held seventeen formal meetings. The main topics of discussion during this period were the phased treaty proposal submitted by the United States, the Soviet annual quota of on-site inspections proposal, continuing debate on staffing, and the discussion and adoption of many minor articles of the proposed treaty.

Phased Agreement Proposal

At the 73rd meeting on April 13th, the United States representative reviewed the major obstacles to reaching an agreement. He stated these as:

first, there is the issue of whether there will be effective procedures to govern on-site inspection; secondly, there is the general problem of voting procedures in the control commission; and thirdly, there is the problem of staffing of control posts.

As a means out of the impasse on the above issues, the United States representative proposed:

(a) That we agree in principle that a total agreed and inspected ban on nuclear tests will go into effect in phases as agreement is reached in these negotiations or in the control commission on the relevant control mechanisms and as such agreements are incorporated in the treaty.

(b) That the first phase, on which we could reach early agreement, could consist of a cessation of tests in the atmosphere, and if the USSR is willing, under water.

(c) That we should continue here to try to resolve the political and technical problems . . . which must be solved if we are to have an effective system for the detection of tests underground and at very high altitudes.

(d) That joint studies, research and negotiation, including such joint experiments as may be deemed useful, should begin immediately.⁵¹

It was also stated that the purpose of the meeting was to discuss the possibility of a joint venture between the two companies. The meeting was held in the conference room of the company and was attended by the following persons:

10-10-68

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Once a plan of action has been developed, the next step is to implement the plan. This involves carrying out the steps that have been identified in the plan and monitoring the progress of the implementation. Finally, the last step in the process is to evaluate the results of the implementation. This involves determining whether the problem has been solved and whether the resources have been used effectively.

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Once a plan of action has been developed, the next step is to implement the plan. This involves carrying out the steps that have been identified in the plan and monitoring the progress of the implementation. Finally, the last step in the process is to evaluate the results of the implementation. This involves determining whether the problem has been solved and whether the resources have been used effectively.

10. The following information is for your information only and is not to be used for any other purpose.

Soviet Reaction to phased agreement proposal. The initial Soviet reaction to the United States phased agreement proposal was to reject it because it would not stop but allow testing in outer space and underground. The Soviet Union continued to press for a comprehensive treaty.⁵²

At the 83rd meeting on April 27, the Soviet representative read into the records of the Conference a letter from Premier Khrushchev to President Eisenhower which formally rejected the United States proposal for a phased agreement and continued to emphasize the Soviet desire for a comprehensive ban on all nuclear weapons tests.⁵³

Soviet Proposal of Annual Quota of On-site Inspections

As a way out of the impasse over the dispatching of inspection teams and on-site inspections, the Soviet Union introduced a proposal at the 83rd meeting on April 27 for an annual quota of on-site inspections. The Soviet representative proposed that

we should agree to conduct each year a pre-determined number of inspections, on the territory of the Soviet Union and on that of the United States and Great Britain and their possessions. The despatch of inspection groups must be based on objective readings of instruments in the control posts indicating the occurrence of events which may be suspected to be nuclear explosions.⁵⁴

Western reaction. The Western reaction to this proposal was that it was too general and did not clearly

United Nations to United Nations Conference - The United Nations Conference on the Environment and Development was held in Rio de Janeiro from June 3 to 14, 1992. The conference was the first of its kind, bringing together representatives of all 183 member states of the United Nations, as well as representatives of non-governmental organizations, the private sector, and indigenous peoples.

At the first meeting on April 3, the United Nations Secretary-General, Boutros Boutros-Ghali, opened the conference by emphasizing the importance of the environment in the development process. He stated that the environment is a common concern of all peoples and that the United Nations has a responsibility to ensure that the environment is protected for the benefit of future generations. The conference was organized into four main areas of discussion: environment and development, environment and human health, environment and social justice, and environment and the law.

United Nations Conference on Environment and Development - The United Nations Conference on Environment and Development (UNCED) was held in Rio de Janeiro, Brazil, from June 3 to 14, 1992. The conference was the first of its kind, bringing together representatives of all 183 member states of the United Nations, as well as representatives of non-governmental organizations, the private sector, and indigenous peoples. The conference was organized into four main areas of discussion: environment and development, environment and human health, environment and social justice, and environment and the law.

The conference was a landmark event in the history of international environmental law. It resulted in the adoption of the Rio Declaration on Environment and Development, which set out 26 principles that guide the development of international environmental law. The conference also resulted in the adoption of the United Nations Framework Convention on Climate Change (UNFCCC), the United Nations Convention on Biological Diversity (CBD), and the United Nations Convention to Combat Desertification (UNCCD). These three conventions are collectively known as the "Rio Conventions".

United Nations Conference on Environment and Development - The United Nations Conference on Environment and Development (UNCED) was held in Rio de Janeiro, Brazil, from June 3 to 14, 1992. The conference was the first of its kind, bringing together representatives of all 183 member states of the United Nations, as well as representatives of non-governmental organizations, the private sector, and indigenous peoples. The conference was organized into four main areas of discussion: environment and development, environment and human health, environment and social justice, and environment and the law.

show the relationship to the Soviet request for a veto on inspections and dispatching of on-site inspection teams. However, it did offer possibilities, they said, if the Soviet Union would drop its insistence on a veto on the decision that inspection was justified or on the dispatch of the inspection group. Further, they added, both the nature of the criteria and the number of inspections to be required must depend upon the evaluation of the scientific evidence available regarding detection of underground tests.⁵⁵

Soviet reply. On April 28, 1959, at the 84th meeting the Soviet representative answered the questions posed by the Western representatives in relation to the proposal. He stated in relation to criteria, "the fixed number of inspections we agree upon must be carried out on the basis of instrument and equipment readings--in other words--on the basis of technical criteria." On the question of voting procedures in the control commission, he stated that,

once we agree on a specific number of inspections per year for each side, the role of the control commission will be very simple as regards the dispatching an inspection team We do not in this case insist on the principle of unanimous decision being applied in every single case as between the three nuclear powers.

In regards to the relationship between the events that can be inspected and the quota in order to define this quota, he said, "the point here is that we must reach a sensible

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political compromise, because any attempt to deal with this question on purely technical lines would lead us down a blind alley."⁵⁶

Western counter-reply. On May 30 at the 89th meeting, the United States representative made a formal reply to the Soviet quota proposal. He made this general observation:

we do not yet have sufficient information on the precise details of this Soviet proposal, either as to its technical reliability or as to the reliability of organizational arrangements for the overall control system, to enable us to judge whether it would ensure effectiveness of control.

He reaffirmed the Western position that the level of inspection to take place must bear an appropriate relationship to scientific facts and to the detection capabilities of the control system, and that inspection would be undertaken only for the purpose of identifying an unidentified disturbance which could be a nuclear explosion.⁵⁷

Continuing Discussion on Staffing

The discussions on staffing of control posts continued during this period, and the Soviet representative clarified the Soviet position on this question during the 75th meeting on April 15, 1959. He stated the Soviet position on staffing was: first, that the foreign specialists would have routine operational duties which depended on the posts they occupied and for which they would be responsible to the chief of post; second, that the foreign specialists would be an organic part of the total staff and

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would, according to the positions they occupied, have direct operational responsibility for functioning of instruments and reading of records and reporting on these; third, that foreign specialists according to the position they held, would be entitled to issue orders and instructions to the appropriate operators and maintenance staff at the control posts; fourth, that one of the senior foreign specialists who holds the appropriate position will be entitled to communicate directly with the control commission if he has some individual view and disagrees with conclusions or proposals of the chief of post; fifth, on the question of the nationality of the head of the post, he must be a national of the country in whose territory the post is situated.⁵⁸

Although views did clarify the Soviet position somewhat, there was no appreciable headway toward reaching agreement on this subject during this period. Nor did the West submit any new proposals.

Adoption of Treaty Articles

The following treaty articles were adopted during this period:

14 April - article on amendments

16 April - article on relationships with other international organizations

17 April - preamble for the treaty.

21 April - article on annexes

24 April - article on parties to the treaty

27 April - article on undertakings concerning co-operation with the system

29 April - article on authentic texts

4 May - article on signature, ratification, acceptance and entry into force.

6 May - article on privileges and immunities

8 May - article on installation and operation of the system in Parties territories

8 May - article on the Conference.⁵⁹

Summary

The adoption of the many above articles was a major step forward, but they were all technical or procedural articles over which there was very little disagreement. With the adoption of these articles it narrowed down the area of disagreement to the control organisation where the major differences were involved.

At the request of the United States, the Conference was recessed on May 8, to be reconvened at a date and time to be agreed upon by the three delegations.⁶⁰

V. THE FOURTH PERIOD JUNE 8, 1959 - AUGUST 26, 1959

Introduction

The Conference reconvened on June 8, 1959, after a

recess from May 8, 1959. Discussion followed through thirty-eight formal meetings before the Conference was recessed on August 26, 1959. Primary discussion revolved around the establishment and report of the Technical Working Group on high altitude tests; new seismic data submitted by the United States; the Soviet quota proposal; Western staffing proposal; the budget and the veto; and the preparatory commission proposal.

Establishment and Report of the Technical Working Group I

During the recess, Premier Khrushchev on May 14, 1959, in a letter to President Eisenhower finally agreed to the setting up of a Technical Working Group to make recommendations on the detecting of nuclear explosions above 30-50 kilometers.⁶¹

At the 95th meeting on June 15, the Conference formally agreed to establish a Technical Working Group of experts from the three Nuclear Powers to study questions relating to the detection of high altitude nuclear explosions. Their term of reference was:

The Technical Working Group should assess the capabilities and limitations of possible techniques for the detection and identification of nuclear explosions at high altitudes (More than 30-50 kilometers) above the earth and, on the basis of the discussions and conclusions of the Geneva Conference of Experts, recommend techniques and instrumentation for consideration by the Conference for incorporation in the detection and identification system.⁶²

Report of the Technical Working Group. The group that was established was formally called Technical Working Group I and submitted its report to the Conference at its 109th meeting on July 10.

The report of the Group stated that they concluded that the detection of high altitude nuclear explosions was technically feasible. They made the following recommendations on techniques and instrumentation for the detection and identification of nuclear explosions at high altitudes above the Earth for consideration by the Conference for incorporation in the detection and identification system.

1. A system should be established consisting of 5-6 earth satellites placed in orbits at altitudes of more than 30,000 kilometers. They should be equipped for the detection of gamma rays, delayed gamma rays, neutrons, and soft X-rays.

2. For a low altitude earth satellite system two systems were recommended:

- a. A system of 6-10 satellites appropriately placed in near circular orbits at altitudes of 500-700 kilometers. This would assure surveillance below an altitude of 2,000 kilometers and would be equipped for the same detection as the high altitude system.

- b. A system of 2-4 satellites appropriately placed in near circular orbits at altitudes of 500-700

Report of the Technical Working Group (The group that was established was formally called Technical Working Group I and submitted its report to the Commission on May 1968 meeting on July 1968.

The report of the group stated that they concluded that the detection of high altitude nuclear explosions was technically feasible. They made the following recommendations: that an improved and better system for the detection and identification of nuclear explosions at high altitudes above the earth and contribution to the Commission for the Commission is the detection and identification system.

1. A system would be recommended consisting of 2-3 high altitude planes in order to eliminate the need for 10,000 kilometers. They should be equipped for the range of 10,000 kilometers, 10,000 kilometers, and 10,000 kilometers.

2. For a low altitude system, the system would be recommended.

3. A system of 2-3 high altitude planes would be recommended. The system would be equipped for the range of 10,000 kilometers, 10,000 kilometers, and 10,000 kilometers. They would be equipped for the range of 10,000 kilometers, 10,000 kilometers, and 10,000 kilometers.

4. A system of 2-3 high altitude planes would be recommended. The system would be equipped for the range of 10,000 kilometers, 10,000 kilometers, and 10,000 kilometers.

kilometers. This would assure surveillance below an altitude of 10,000 kilometers. They would be equipped for the same detection as the high altitude system.

3. A satellite should be placed into an appropriate elliptical orbit around the earth to provide maximum coverage of the region in the earth's magnetic field in which electron trappings occur.

4. To extend the system to provide increased coverage of the regions behind the moon and the sun away from the earth, a system of four satellites should be placed in appropriate solar orbits, of radius approximating that of the earth around the sun, when the state of the technology permits.

5. Each satellite should carry instrumentation to achieve the maximum reliability and range of detection of nuclear explosions in space and carry apparatus for checking the performance of the equipment of the satellite. All required data, including levels of background, signals, and performance data should be transmitted to a suitable number of control posts. Suitable equipment for receiving and analyzing data should be installed in these control posts in order to ensure the rapid and reliable analysis of signals received from the satellite.

6. Additionally, the following techniques and instrumentation should be installed at ground posts:

... ..

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

[illegible]

1. The results of the study indicate that the use of the proposed system will result in a significant increase in the efficiency of the system.

It appears that, following the receipt of the information, the Bureau has been advised that the information is being furnished to the appropriate authorities for their consideration.

1. The following information is being furnished to you for your information only. It is not to be used for any other purpose.

- a. Multiple channel optical detectors.
- b. Optical equipment suitable for observing fluorescence in the upper atmosphere.
- c. Equipment suitable for measuring the absorption of cosmic radio noise in the ionosphere.
- d. Equipment suitable for recording radio signals.⁶³

Acceptance of the findings of the Group by the Conference. At the 121st meeting on August 10, the Soviet representative stated that the Soviet Government "agrees to the inclusion of the methods and instrumentation recommended in the report of the experts . . . in the system of control over the cessation of nuclear tests."⁶⁴

The representative of the United Kingdom stated that the United Kingdom accepts the report of the high-altitude Working Group as a correct technical assessment of possible techniques for the detection and identification of high-altitude nuclear explosions in the light of scientific knowledge available at the time of the Working Group's session.

Further, he stated that the United Kingdom was "prepared to take part in discussions regarding the embodiment in the treaty of provisions on high-altitude controls, in the light of the recommendations contained in the report."⁶⁵

On August 26th at the 127th meeting, the United States representative stated that

the United States accepts the report as a correct technical assessment of the capabilities and limitations of possible techniques for the detection and

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identification of high-altitude nuclear explosions in the light of presently available scientific knowledge. /Further, he said/ the United States is now considering the complex problems of the timing and scope of the high-altitude detection system to be established on the basis of the aforesaid report, problems which are brought into focus in translating into specific treaty language the results of the broad technical survey of feasibilities and alternatives contained in the report.⁶⁶

Although the report of the experts was accepted by the Conference no further action was taken during this period except that the United States said that it would be incorporated into Annex I on the Detection and Identification System which was proposed by the United States on December 16, 1958.⁶⁷

New Seismic Data Submitted by the United States

The discussion of new seismic data was again reintroduced into the meetings when on June 12, 1959, at the 94th meeting, the United States representative introduced the findings of the Berkner Panel. This panel of United States experts was established by President Eisenhower's Special Assistant for Science and Technology under the chairmanship of Dr. Berkner. The panel was to study the possibility of improving the Geneva system within existing technology and through a program of seismological research. They would also investigate the possibility that underground tests might be successfully concealed. The report they submitted re-emphasized the need for additional

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THE REPORT OF THE EXPERTS

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research programs in seismology. They concluded that this program could improve the detection and identification system to bring the system to the capability as was originally estimated by the 1958 Conference of Experts. On the basis of this report, the United States representative proposed that the Conference establish a technical study group to review the identification and detection system in the light of the new data.⁶⁸

Soviet reaction. The Soviet representative commenting on the new data said, "we take an unfavourable view of the question of revising the experts recommendations on underground nuclear explosions."⁶⁹

On June 17th, the Soviet representative formally replied to the United States proposal for the establishment of a technical study group to consider the new data. He said "the only purpose that can be served by the Western insistence on a technical study group to study new data was to drag out the negotiations." Further he stated that the Soviet Union recognized that there will always be means of improving the system in the future and that is why they adopted the article providing that the mechanism of detection and identification of nuclear explosions shall be revised every two years. He concluded by saying that the Soviet Union wishes to reach an agreement, "and

the light of the new data.

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that is why we are insisting on the conclusion of a treaty based on the data already agreed between our governments."⁷⁰

Soviet On-Site Inspection Quota Proposal

On July 9, the Soviet representative introduced a draft article incorporating its views it had put forward on April 27, 1959. It read as follows:

For the purpose of preventing possible violations by States of their obligations under this treaty, there shall, in addition to the network of control posts, be carried out on-site inspection of unidentified events suspected of being nuclear weapon explosions.

1. In order to carry out on-site inspection of such unidentified events on the basis of criteria set forth in Article ____, there may be made in each year on the territory of each of the original parties not more than ____ inspections at any place where, according to readings of instruments at control posts, an unidentified event suspected of being a nuclear weapon explosion has occurred.

2. Inspections under paragraph 1 of this article shall be carried out -

(a) on territories under the jurisdiction or control of the United States or the United Kingdom, at the request of the Soviet Union;

(b) on territories of the Soviet Union, at the request of the United States or the United Kingdom.

Inspection groups within the specified quota shall be despatched by the Commission without delay, and agreement between the original parties to the treaty shall not be required.⁷¹

No further action was taken on this Soviet proposal during this period.

Staffing Proposals

Discussion of the problem of the Soviet veto over staffing continued, and the Soviet representative clarified

the Soviet position in reference to the veto, when on June 16th he said, "it would depend to a considerable degree on the kind of agreement we reach on the staffing of control posts."⁷²

United States introduces new proposal. At the June 22nd meeting, the United States representative stated that the United States was prepared to consider any proposal the Soviet Union might make for the inclusion of a strictly limited number of host country personnel in the staffs of control posts, "perhaps one operator for each of the four principal methods would be reasonable."⁷³

The Soviet representative rejected this proposal because it would still make the majority of the technical staff on a control posts foreigners. He added that, in an effort to reach agreement on this question, the Soviet Union was prepared to increase the number of foreign specialists in its proposal, to six or seven at each control post.⁷⁴

United Kingdom submits new Western proposal. On July 20th at the 113th meeting, the representative from the United Kingdom introduced a new Western proposal on staffing of control posts. He said, "the Western delegations are prepared to settle the question of technical staffing at control posts in the territories of the original parties on the basis of an equal division among the three elements involved." By this proposal he said, one-third of the

The Postal Service is responsible for the work which is done in the field. It is not a business enterprise. It is a service organization. The kind of work which is done in the field is of a technical nature. It is not a business enterprise. It is a service organization.

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personnel would be from the Soviet Union, one-third from the United States and the United Kingdom, and one-third from countries other than the original parties. Further, he said, the head of the control post would be from one of the original parties except the host country.⁷⁵

The United States representative added, in replying to a Soviet question about the third-third, that the only restriction on the third-third would be that they could not come from one of the three original parties.⁷⁶

Soviet Union submits new staffing proposal. On July 24th the Soviet representative said that the Soviet Union was prepared to increase the number of foreign specialists at control posts to ten to agree with the number recommended in the Western proposal for the "other side." He added that the Soviet Union could not accept the use of non-original states for one-third representation on control posts. He said that the non-nuclear States, "are not demanding at all to be included as staff members of control posts situated on the territory of the three nuclear powers." However, he did agree that two or three neutrals could be included in the ten foreign specialists proposed by the Soviet Union.⁷⁷

Although these counter-proposals did narrow the differences, it did not bring about agreement on this question during this period.

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Preparatory Commission

On July 27th at the 115th meeting, the United States representative introduced a draft Annex III for the treaty on the functions of the Preparatory Commission. The proposal stated that the preparatory commission will consist of one representative from each of the original parties to the treaty and will come into existence the day after the treaty has been signed by the original parties. The commission will function until the control commission has been established in accordance with the treaty. Further, once certificates of ratification have been deposited by the three original parties, the preparatory commission should be enlarged by adding four other States to be chosen by the original parties from the States that have ratified the treaty. Once the preparatory commission has been enlarged after ratification, the commission should take on the powers of the control commission as specified in the treaty. An executive secretary for the preparatory commission will be appointed by the three original parties and would act in a similar capacity as the administrator once the treaty has been ratified and the preparatory commission was enlarged. The preparatory commission would end when the Conference of Parties met and elected the four non-permanent members of the Commission.⁷⁸

Although there was a great deal of discussion about

the draft Annex III, no decision was taken on it during this period.

Status of the Soviet Veto List

On July 6th at the 107th meeting, the representative from the United Kingdom made a detailed analysis of the present status of the Soviet veto list which had been introduced as an amendment to Article 5 of the treaty on January 30th.⁷⁹ He stated that item (a) on amendments had been dropped after adoption of the article on amendments. Item (b) on treaty violations had presumably been dropped after the Soviet representative's statement on June 30th when he said that he was ready to eliminate that item on the understanding that he correctly interpreted the Western position regarding the functions of the control organization. He said he interpreted this as

the function of the control system and its organs is not to make accusations against States but to bring forward facts, or the scientific evaluation of facts, which might establish whether a clandestine nuclear explosion has taken place somewhere.⁸⁰

Item (c) the representative from the United Kingdom continued, which dealt with the Administrator and his staff, was still unsettled, but it had been agreed that the Administrator should be selected by agreement among the three original parties.⁸¹ Item (d) which dealt with on-site inspections was still unsettled; however, acceptance of

the Soviet quota proposal would settle this item. Item (e) which dealt with revision of control methods and technical problems had apparently been settled with adoption of the amendment article. Item (f) which concerned sites of control posts and special aircraft routes was apparently in agreement that the host country should have a veto over sites and routes but that acceptable alternates should be offered. Item (g) was a general item which dealt with budgetary, financial, and administrative and economic matters, including matters dealing with recruitment and dismissal of auxiliary and support personnel was also apparently in agreement. The Western powers interpreted the Soviet position as seeking a veto for the original parties in the commission as regards the budget as a whole, the scale of contributions, the acceptance of contributions in kind, and loans contracted by the organization. Further, he said, they interpreted that the words "administrative and economic matters" referred to the same items.⁸²

Soviet critique of status of the veto list. On July 17th at the 112th meeting, the Soviet representative commented on the representative of the United Kingdom's analysis of the status of the Soviet veto list. He stated that "the position of the Soviet Union is that all basic questions concerning the work of the control organization

The Soviet Union proposed a new system of international relations, which would be based on the principle of mutual respect and non-interference in the internal affairs of other states. This system would be based on the principle of equality of all states, large and small, and on the principle of peaceful coexistence. The Soviet Union proposed a new system of international relations, which would be based on the principle of mutual respect and non-interference in the internal affairs of other states. This system would be based on the principle of equality of all states, large and small, and on the principle of peaceful coexistence. The Soviet Union proposed a new system of international relations, which would be based on the principle of mutual respect and non-interference in the internal affairs of other states. This system would be based on the principle of equality of all states, large and small, and on the principle of peaceful coexistence.

1955.

Review of the Soviet Union's foreign policy in 1955. In 1955, the Soviet Union's foreign policy was characterized by a continued commitment to the principles of peaceful coexistence and mutual respect. The Soviet Union continued to advocate for a new system of international relations based on these principles. The Soviet Union's foreign policy in 1955 was characterized by a continued commitment to the principles of peaceful coexistence and mutual respect. The Soviet Union continued to advocate for a new system of international relations based on these principles.

should be settled by agreement between the three nuclear Powers negotiating here at the present time: the Soviet Union, the United States and the United Kingdom. This agreement must either be manifested in the control commission during the operational work of the control organization, or written explicitly into the treaty which we are drafting here." He continued that the analysis was correct in relation to items (a), (b), (d), (e), and (f). As to the two remaining items (c) and (g), he reaffirmed the Soviet position on these items. Under item (c), he agreed with the West that the Administrator should be appointed by the unanimous consent of the three original parties. As to the selection of the staff of all components of the control organization, the Soviet Union was willing to drop its veto if the staff of the organization was distributed according to quotas or to some kind of proportional percentage. In relation to item (g) which concerned budgetary, financial, administrative and economic matters, he declared, that the Soviet Union is ready to eliminate from this item matters relating to the recruitment and dismissal of the supporting and auxiliary personnel if the treaty lays down that they shall be nationals of the country on whose territory a control post is located or an inspection group will operate. In regards to matters of financial responsibility, the principal weight of which will be borne by

[illegible]

the original parties to the treaty, he said, they must be settled by agreement between the three original parties to the treaty.⁸³

Summary

This period did see a narrowing of the issues separating the negotiators, but it also brought these issues into sharper focus. It also emphasized the major obstacles to reaching an agreement.

On August 11, 1959, at the 122nd meeting, the Conference adopted an amendment to draft Article 3, which dealt with the Control Organization, providing for the location of the headquarters of the control organization to be located at Vienna, Austria.⁸⁴

On August 26th after the 127th meeting, the Conference recessed to enable the delegations to take part in the forthcoming Fourteenth General Assembly meeting of the United Nations, and it was agreed to resume negotiations on October 12, 1959.

VI. THE FIFTH PERIOD OCTOBER 27, 1959 - DECEMBER 19, 1959

Introduction

On October 27, 1959, the Conference reconvened following a recess from August 26th. Twenty-three formal

meetings were held during this period until the Conference recessed for the holidays on December 19th. The major topics discussed were: the establishment of and report of the Technical Working Group II; functions of the commission and the administrator; the Soviet package proposal; and the adoption of the draft annex on the preparatory commission.

Technical Working Group II

At the 128th meeting on October 27, the United States representative placed the failure of the Conference to reach agreement on the issue of effective control. He stated,

in particular we want to know how we can gain assurance as to the reliability of methods for the detection and identification of disturbances below the earth's surface so as to determine which are natural seismic events and which may be nuclear explosions.

He continued, "no party to the treaty can be allowed to have a veto over the operation of the machinery, because this would vitiate the chances of effective control." The United States representative then set forth what the United States believes are at least three requirements for effective control:

1. The system of control must be capable of detecting nuclear explosions prohibited by the treaty.
2. All events which cannot be identified as natural by the system must be eligible for

meeting was held during this period with the Commission
 requested the the Institute on September 19th. The report
 being requested was: the establishment of a report to
 the Technical Working Group II; provision to the Commission
 and the establishment of the Technical Working Group II;
 and the adoption of the report on the preliminary
 Commission.

Technical Working Group II

At the 11th meeting on October 17, the Commission
 stated representatives stated the failure of the Commission
 to reach agreement on the issue of technical matters. It

stated:

In paragraph 10 of the report on the 11th meeting
 it was stated that the Commission had decided to
 continue its work on the basis of the information
 provided by the representatives of the Commission
 and the Technical Working Group II.

It continued, the report on the 11th meeting was
 that a letter from the Commission to the Technical
 Working Group II would state the reasons for technical matters.
 The Commission stated representatives of the Commission
 and the Technical Working Group II had agreed to
 continue their work on the basis of the information
 provided by the representatives of the Commission
 and the Technical Working Group II.

Effective meeting:

1. The system of control must be revised to
 include the following changes proposed by the
 Commission.
2. All work must be done in accordance with
 the system of control proposed by the Commission.

inspection even though all unidentified events will not in fact be inspected.

3. The number of inspections must be related to the number of unidentified events. The inspection bridge, must vary in length with the gap between events detected and events identified.

He concluded his remarks by putting forward another appeal to the Soviet Union to agree to full exploration of all the available technical information and studies, and of their implications for the effectiveness of the control system.⁸⁵

Soviet reaction. The initial Soviet reaction was a renewed appeal for acceptance of its quota system of inspection based on a small previously agreed number.

On October 29th, the Soviet representative stated in reference to effective control "that you can never reach the absolute point where each and every explosion under any conditions can be detected." He went on to say that "this means that there has to be some kind of political agreement here on the cessation of tests." Further, he said, that the proper place to review new data was by the preparatory commission and the control organization which would be established after the treaty was signed.⁸⁶

However, after extended discussion, the Soviet Union finally did agree to convene a technical working group at the 137th meeting on November 29, 1959. The term of reference agreed upon for the technical working group was:

[illegible]

The Technical Working Group of experts shall consider the question of the use of objective instrument readings in connection with the selection of an event which cannot be identified by the international control organ and which could be suspected of being a nuclear explosion, in order to determine a basis for initiating on-site inspections. As part of their work, the experts, proceeding from the discussions and the conclusions of the Geneva Conference of Experts, shall consider all data and studies relevant to the detection and identification of seismic events and shall consider possible improvements of the techniques and instrumentation.

The Group will meet in Geneva on 25 November and report to the conference by 11 December 1959.⁸⁷

Report of the Technical Working Group II. On

December 19, 1959, at the 150th meeting, the Group submitted its report to the Conference. Their report stated that there was "disagreement regarding the interpretation of the new data from the Hardtack experiments and regarding the question of de-coupling." Agreement was reached on possible improvements of technique and instrumentation. There was also disagreement concerning the objective instrument readings in connection with the selection of an event which cannot be identified by the international control organ and which could be suspected of being nuclear explosion, in order to determine a basis for initiating on-site inspections.⁸⁸

The Soviet representative of the Technical Working Group II read a long statement to explain the Soviet position in the disagreement over the new data from the Hardtack experiments and the question of decoupling which

The Technical Working Group of Experts shall consider the question of the use of objective instruments in connection with the selection of an event which should be identified by the technical working group and which could be supported by being a suitable subject for other to be used of their work. The experts, as working from the data of the investigation of the events concerned, of several, shall consider all data and other relevant to the selection and identification of suitable events and shall consider possible causes of the accidents and circumstances. The Group will meet at Geneva on 12 November and report to the Conference by 15 December 1977.

Report of the Technical Working Group II

Paragraph 13, 1977, at the first meeting, the Group requested its report to the Conference. While it was stated that there was "disagreement regarding the interpretation of the new data from the various experiments and regarding the question of sequencing," Agreement was reached on possible improvements by reduction and dissemination. There was also agreement concerning the objective of agreement regarding the connection with the selection of an event which cannot be identified by the investigation group. The Group and which could be supported by being suitable for identification, in order to achieve a basis for identifying

On-site investigations.

The Group representatives of the Technical Working Group II took a long statement to explain the Group's position in the investigation with the new data from the various experiments and the question of sequencing with

were submitted by the United States. He downgraded the reliability of the data and concluded that after extensive analysis of the data and supporting evidence, that it did not change the conclusions reached by the 1958 Geneva Conference of Experts and had, in fact, supported them. Further, he declared, it showed that there were less unidentified events than the Conference of Experts had estimated. He concluded that because of this disagreement over the new data submitted by the United States, the Group was unable to reach agreement over the criteria to be used for the selection of an unidentified event for on-site inspection.⁸⁹

The United States representative rebutted the statement of the Soviet representative and defended the United States argument that the use of the first motion for identification of an underground nuclear explosion was not as reliable as the Conference of Experts of 1958 had concluded and the Soviet experts still contended was true and supported by the United States data. He further defended the United States conclusion that there would be about 15,000 earthquakes of 1 kiloton or more per year and about 2,000 of about 20 kilotons. On the matter of criteria he said, "that the Soviet proposal would have classified such events as the recent United States underground nuclear test explosions, which ranged up to 19 kilotons in yield,

as natural earthquakes." He concluded his statement by saying that

the problem of formulation of criteria is a strictly technical problem. If technical knowledge permits one to identify a large fraction of seismic events as earthquakes, then it is clearly an advantage to the control system. If technical knowledge does not permit this, then seismic events must remain eligible for inspection. Determination of the means of selecting events to be inspected must be left for further consideration of the Conference.⁹⁰

Thus the long-awaited technical study of the control problem which was so actively pushed by the West ended without agreement and instead of solving the problem on technical grounds, it put it back in the hands of the Conference to try to reach a political settlement.

Functions of the Control Commission and the Administrator.

The discussion also revolved around draft articles VI, on the functions of the control commission, and IX on the functions of the Administrator and his staff. These articles had been proposed by the United States on December 15, 1959, and revised on July 1, 1959.⁹¹

On December 1, 1959, the Soviet representative submitted an amended proposal for draft article VI on the functions of the Commission. This proposal provided for, the appointment of two deputy administrators in addition to the administrator, one from each side, and they and the administrator would be appointed by the Commission by a majority vote including the affirmative votes of the

three original parties; decisions of the Commission on the location of elements of the System and on the determination of specific routes of special aircraft flights for the collection of air samples shall be taken with the agreement of the government concerned; the commission in accordance with "Article ____" shall instruct the Administrator as to the dispatch of inspection teams for the verification of events suspected of being nuclear explosions; and the Commission shall establish procedures in accordance with "Article ____" for the surveillance and observation of nuclear detonations for peaceful purposes.⁹²

At the 142nd meeting on December 3, the Soviet representative introduced an amended proposal for Article IX on the functions of the Administrator and his staff. The proposal set forth that: the Administrator shall be responsible to the Commission and is directly subordinated to it in all his acts; the Deputy Administrators appointed under Article VI would assist the Administrator in his day-to-day work and they shall be entitled to equally participate in questions for decision by the Administrator; the Administrator is authorized to develop research programs and make recommendations to the Commission for improvement of the system; and authorizes the Administrator, upon instruction and under procedures approved by the Commission, to take the necessary steps to

dispatch inspection teams and to carry out special aircraft flights in accordance with Annex I (the detection and identification system).⁹³

Western reaction. On December 4th, the United States representative made a preliminary review of the Soviet proposals. He said his general reaction was that the proposals change quite drastically the initial Western proposals. In relation to the functions of the Administrator, he commented that

it seeks to place the administrator in the rather menial position of a person closely akin to a servant of the control commission who could act solely to carry out a constant flow of directives which it seems would be issued by the commission on a day-to-day basis.

He added that the United States feels that this administrator "must be given a certain amount of latitude in carrying out his vital functions, and that is why we have given him separate terms of reference in Article IX." He continued,

we do not deny, nor shall we, that the control commission will occupy the predominant place in the organization, but we do not feel that the supervisory functions exercised by the control commission require that the administrator be held in such close daily check.

In regards to the need for the two deputies, he said, "he strongly questions the need to put the appointment of the two deputies into the treaty." On the question of special aircraft flights, he said that "we do not think that

directly involved in the work of the committee and
 last night in the committee with the 1-100 committee
 and identification system.

Session 10: 10:00 AM - 11:00 AM

Representative made a preliminary review of the 1-100
 proposals. He said the committee was that the 1-100
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matters of on-site inspections and special flights should be treated together." Further, the administrator should handle the dispatch of aircraft flights without separate and specific control commission action, through procedures set up by the Control Commission.⁹⁴

Soviet Union modifies proposal on function of the Commission. On December 10th at the 146th meeting, the Soviet representative amended its proposal on the selection of sites and aircraft flights which were to be taken with the agreement of the government concerned to read:

The Commission shall decide on the location of elements of the System and on the determination of definite flight patterns for special air sampling flights. Before so deciding, the Commission shall agree upon the location of elements of the System or upon the flight pattern for the special flight with the government of the country concerned, which shall have an opportunity either to approve the proposal of the Commission for such location or flight pattern or to propose another location or flight pattern satisfying the scientific and technical requirements.⁹⁵

The United States representative commenting on this amendment of the functions of the control commission, repeated his previous request that the question of special aircraft flights should be treated separately from the location of control posts.

Agreement on certain paragraphs of articles VI and IX. On December 11th at the 147th meeting, the Conference provisionally approved certain paragraphs of draft articles VI and IX on the functions of the Commission and the

and specific control actions through procedures set up by the Control Commission.

United States National Archives - Document # 100-46897

[illegible]

Administrator. The paragraphs approved were:

Paragraph 1 of Article IX--Functions of the Administrator and his Staff--which read:

The administrator shall be the chief executive officer of the system and the head of the staff of the control organization. He shall be responsible to the commission and under its supervision shall carry out its policies and directives. He shall have executive responsibility for the installation and operation of the system under procedures and standards established by the commission. He shall provide to the commission such advice, reports and assistance as the commission may request.

Paragraph 5 of Article IX, which read:

The administrator shall develop and arrange for the execution of a programme of research and development.

Paragraph 9 of Article VI--Functions of the Control Commission--which read:

The Commission shall establish procedures for the implementation of article ____ on detonations for peaceful purposes.⁹⁶

Soviet Package Proposal

On December 14th at the 148th meeting, the Soviet Union submitted a proposal to settle the four major obstacles to agreement. The Soviet representative stated these were: inspection, staffing of control posts, the composition of the commission, and voting procedures in the commission on budgetary and financial questions. He declared that the Soviet Union was prepared to make major concessions on other issues if the West would accept the

...The Commission shall be composed of the following members: ...
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The Commission shall be composed of the following members: ...
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Article 1 of the Constitution

The Commission shall be composed of the following members: ...
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Article 2 of the Constitution

Commission - which shall

The Commission shall be composed of the following members: ...
 ...The Commission shall be composed of the following members: ...

Article 3 of the Constitution

On December 1st of the year 1955, the Soviet Union submitted a proposal to the United Nations to establish a Commission for the Study of the Causes and Consequences of the War. The Commission was established by the United Nations General Assembly on December 1st, 1955. The Commission was composed of the following members: ...
 ...The Commission was composed of the following members: ...
 ...The Commission was composed of the following members: ...

Soviet proposal of 3-3-1 composition of the Commission. Specifically, he said that the Soviet Union would be prepared to accept the United States proposal for staffing by thirds, one-third of the specialists made up of the country on whose territory the post was located, one-third of the specialists from the other side and one-third of the specialists from non-nuclear powers. As to the distribution of the last third, he proposed that this be distributed by one-third to countries allied to the Soviet Union, one-third to countries allied to the United States and the United Kingdom, and one-third to neutral States. Further, he said, the Soviet Union would agree to have decisions on an itemized budget made by a two-thirds majority of the Commission, providing that the treaty laid down the share of contributions to be borne by the three original parties to the treaty.⁹⁷

Western Comments on the proposal. The United Kingdom representative asked the Soviet representative whether there was any change in the Soviet position on the nationality of the head of the control post. The Soviet representative replied that he must be a national of the country within which the post is located.⁹⁸

The United States representative only commented that the Soviet proposal of 3-3-1 composition of the control commission would make the two-thirds vote on the budget an

"academic question" because if one side disagrees with the budget, then that is an automatic veto, "since three from seven leave four." Further, he said, in reference to contributions that he interpreted this to mean it would be written as a percentage rather than a flat sum.⁹⁹

There was no further discussion on this proposal during this period.

Draft Annex on the Preparatory Commission

On November 30th at the 140th meeting, the conference adopted the draft annex III submitted by the United States on July 27, 1959, without any major modifications.¹⁰⁰ Annex III set forth the composition and functions of the preparatory commission.

Summary

During this period very little progress was made towards reaching agreement. The failure of the Technical Working Group II to reach agreement on criteria for selecting an event for on-site inspections impeded the progress of the Conference. Although there was agreement on certain paragraphs of the articles in relation to the functions of the Commission and the Administrator, there still remained many elements of disagreement in these articles. The adoption of Annex III on the preparatory commission did progress the Conference somewhat. However, with the adoption of articles and annexes on which there

was little or no disagreement, it narrowed the remaining issues down to fundamental principles on which there was not much agreement since the negotiations began.

The Conference recessed on December 18 for the holidays to be reconvened on January 12, 1960.

VII. THE SIXTH PERIOD JANUARY 12, 1960 - APRIL 14, 1960

Introduction

The sixth period commenced in Geneva when the Conference reconvened on January 12, 1960. Forty-eight meetings were held until the Conference again recessed for Easter on April 14, 1960. Discussion during these meetings revolved around the technical system, the United States proposal for a phased treaty, inspection criteria, seismic research program, and special aircraft sampling flights.

Dispute over the Technical System

At the opening meeting on January 12th, the United States representative concentrated his remarks to discussion of the technical system. He said that the Conference had been confronted with two different categories of issues: one technical and the other political. He continued that for the past year the Conference had concentrated its attention on the political issues and a great amount of progress had been made. He added that in the

the 1955-56 season, it was found that the
 amount of water used in the irrigation system
 was about 100,000 gallons. The amount of water
 used in the 1956-57 season was about 120,000
 gallons. The amount of water used in the 1957-58
 season was about 140,000 gallons.

VII. THE WATER RESOURCES OF THE STATE OF TEXAS

The water resources of the State of Texas
 are divided into two main groups: surface
 water and groundwater. Surface water is found
 in the form of rivers, streams, and lakes.
 Groundwater is found in the form of aquifers.
 The amount of water used in the State of Texas
 is about 100,000 gallons per day. The amount
 of water used in the State of Texas is about
 120,000 gallons per day. The amount of water
 used in the State of Texas is about 140,000
 gallons per day.

Surface Water Resources

At the present time, the State of Texas
 has a total of about 100,000 acres of
 surface water. This water is found in the
 form of rivers, streams, and lakes. The
 amount of water used in the State of Texas
 is about 100,000 gallons per day. The
 amount of water used in the State of Texas
 is about 120,000 gallons per day. The
 amount of water used in the State of Texas
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area of the technical system there has developed a real impasse. Further, he said that United States scientists could no longer accept the conclusion of the 1958 Conference of Experts to the effect "that 90 percent of all seismic events above an equivalent yield of 3 kilotons could be identified by the technique of using the sign of the first motion." The United States scientists he said, concluded "that the number of seismic events of various equivalent yield ranges with which the control system will have to deal on a worldwide basis is 50 to 100 percent larger than appears to be the case at the 1958 Geneva Conference of Experts." He added, however,

that the number of events is not in itself crucial for our work. Our problem is to find some means of sifting through the maze of seismic events to identify as many as possible as earthquakes, so that only a residue will remain unidentified and hence subject to suspicion as possible nuclear explosions.

He continued that the device for achieving some measure of identification has been called either "objective instrument readings" or "criteria" and the failure of the Technical Working Group II to reach agreement in this respect "threatens to have the most discouraging consequences for the completion of our work here." He concluded by saying

a Treaty which purports to control a prohibition on all underground nuclear weapon tests must rest on a basis of agreement regarding criteria or objective instrument readings. It must establish agreed and effective procedures for determining

that of the industrial system. In the United States, the
 Japanese, however, do not have that kind of industrial
 credit as Japan would not consider it as such. The
 Japanese do not have in the United States the same
 relation as they have in Japan. The Japanese do not
 could be identified by the Japanese as being the same as
 the United States. The United States, however, do not
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 relation as they have in Japan. The Japanese do not
 have in fact as a credit as they have in Japan.

Industrial credit, however, is also, however,
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when on-site inspections should be initiated and how they should be carried out.¹⁰¹

Soviet Proposal on the Technical Problem. On January 13 at the 152nd meeting, the Soviet representative put forth a proposal as a means out of the technical system impasse. He proposed that the control commission, which is the main supervising organ of the control organization, will have the opportunity of organizing further research aimed at increasing the effectiveness of the methods of identification and of the sensitivity of the instruments and equipment. He continued that

the Control Commission could also be entrusted with the further study of controversial scientific technological questions on which agreement has not yet been reached between our experts and on which the views of the United States and Soviet experts differ.

As far as relating inspections to unidentified events, the Soviet representative stated "that there should be inspections, that they should be carried out," but the question must be solved politically because a technical approach would lead us to a deadlock. He further commented that

the difficulties over criteria are artificially created owing to the differences of approach in this matter. If we reach an agreement on a quota of inspections then, of course, no special difficulties will arise in our negotiations on the question of criteria. We shall quickly be able to find the approach, or define the criteria, which will have to be used in order that each of the sides may carry out the agreed inspection quotas.¹⁰²

United States Proposal for a Phased Treaty

On February 11, 1960, at the 170th meeting, the

when the first session was held in 1951 and
the first report was published in 1952.

Soviet Progress on the Technical Program

January 13 at the 1952 meeting, the Soviet representative
put forth a proposal as a means out of the technical system
problem. He proposed that the Soviet Commission, which
is the main supervising organ of the Soviet organization,
will have the opportunity of organizing further research
aimed at increasing the effectiveness of the work in
identification and of the sensitivity of the instruments
and equipment. He continued that

the Soviet Commission would also be concerned with
the further study of atmospheric conditions and
colloidal particles in which agreement has not yet
been reached between the Soviet and the United States
views of the United States and Soviet experts alike.

As far as relating instruments to atmospheric events, the
Soviet representative stated "that there should be proper
links, that they should be carried over," and the question
must be solved satisfactorily between a technical approach
which leads to a decision. He further mentioned that

the difficulties were serious and especially
stated that in the development of systems in
this matter. It is known as a system of a type
of instrument, of course, he stated that
also will work in our organization on the question
of detection. He said that he had the
impression, on the other hand, that will have
to be used in order that we can find the way
and the Soviet representative stated,

United States Progress in a General Sense

On February 11, 1952, at the 1952 meeting, the

United States representative introduced a new phased treaty proposal. He proposed a phased agreement on the cessation of nuclear tests:

the first phase of the agreement should provide for the cessation of all nuclear weapon tests in the earth's atmosphere, in the oceans, and in outer space up to the greatest height with respect to which agreement can be reached on the installation of effective control.

This phase would also include provision for the cessation of underground nuclear tests down to the "lowest limit of size, or threshold," for which adequate control is now feasible. This "threshold" would be defined in terms of the magnitude of seismic events detected by the control system. He said,

there would be a direct relationship between the number of on-site inspections of detected but unidentified seismic events of magnitudes greater than the threshold magnitude and the number of such events which occur.

Therefore, he continued,

within the limits of the technical capability of the agreed control system, the selection of the threshold will depend upon the level of inspection acceptable to the three original parties.

He further stated that the treaty would provide for the evolutionary and progressive lowering of the threshold magnitude as the detection and identification capabilities of the system were improved through the utilization of improved techniques, instrumentation, and criteria.

United States representative indicated a new format
 twenty proposal. He presented a general agreement on the
 cessation of nuclear tests.

The first phase of the agreement should provide
 for the cessation of all nuclear weapons tests in
 the entire atmosphere, in the ocean, and in outer
 space up to the highest depths with respect to
 which agreement has been reached on the installation
 of effective controls.

This phase would also include providing for the cessation
 of development nuclear tests down to the deepest limits of
 the earth, or elsewhere, for which adequate controls are now
 feasible. This "intermediate" would be defined in terms of
 the capability of existing means controlled by the national
 system. He said,

There would be a direct relationship between the
 number of nuclear weapons in the world and the
 installation of adequate controls on nuclear weapons.
 Thus the United States and the Soviet Union
 will work toward a goal.

However, he continued,

Within the limits of the national capability to the
 agreed control system, the reduction of the number of
 all types of nuclear weapons and the reduction of the
 in the three original parties.

He further stated that the treaty would provide for the
 verification and progressive lowering of the number of
 weapons as the national and international capabilities
 of the system were improved through the installation of
 improved methods, instruments, and controls.

Further, he proposed that a program of joint research be instituted as rapidly as can be agreed upon. As for criteria, he proposed that the criteria proposed by the experts of the United States at the Technical Working Group II be used as an initial criteria. He continued that, if this was not agreeable, then "the agreed level of inspection be expressed simply as a percentage of all seismic events above the agreed threshold magnitude which are located by the system." He added that the question of whether the level of inspection should be expressed as a percentage or expressed as a fixed numerical quota "is of secondary importance." The primary consideration, he said, is that the level of inspection must bear a relationship to the scientific facts. Specifically, the United States representative proposed the adoption of a threshold of magnitude 4.75. Thus, he continued,

depending on whether we are able to reach agreement on criteria, either all seismic events of magnitude greater than 4.75 located by the system would be eligible for inspection or, alternatively, only those events above such magnitude left unidentified after the application of the United States criteria would be eligible for inspection. In the former case, we would propose that 20 percent of all events located by the system would be subject to inspection; in the latter case we would propose that 30 percent of unidentified events be inspected. On the basis of the best estimates provided by United States scientists, and assuming the existence of control posts initially only on the territories of the three original parties, it would appear that either formula applied to events of magnitude 4.75 or greater would result in about twenty inspections in the Soviet Union in the average year.¹⁰³

There, he proposed that a system of joint research be
 instituted as rapidly as can be agreed upon. In the
 field, he proposed that the criteria proposed by the
 experts of the United States in the Technical Working
 Group II be used as an initial criteria. He suggested
 that, if this was not practicable, then the agreed level of
 inspection be suggested also; as a percentage of all
 scientific events above the agreed threshold against which
 are located by the system. He added that the question of
 whether the level of inspection should be increased as a
 percentage or expressed as a fixed numerical value is an
 extremely important. The primary consideration, in fact,
 is that the level of inspection must have a relationship
 to the scientific level. Specifically, the United States
 representative proposed the adoption of a threshold of
 magnitude 4.75. That, he continued,

depending on whether we are able to reach agreement
 on criteria, either all technical events of magnitude
 greater than 4.75 located by the system would be
 eligible for inspection or, alternatively, only
 those events above such magnitude that constituted
 after the application of the United States criteria
 would be eligible for inspection. In the former
 case, we would propose that 10 percent of all events
 located by the system would be subject to inspection;
 in the latter case we would propose that 10 percent
 of unclassified events be inspected. In the latter
 of the two methods proposed by United States
 representatives, and assuming the existence of uniform
 data reliably only on the distribution of the
 three original systems, it would appear that within
 formula applied to events of magnitude 4.75 or greater
 would result in about twenty inspections in the
 United States in the average year, 1971.

Later in the discussions in answer to a Soviet question in regards to tests below the threshold, he stated "that tests in the underground environment lower than the seismic magnitude of 4.75 would be excluded from the first phase of the proposal and that there would be no moratorium on these tests in the treaty."¹⁰⁴

Soviet Reaction to the proposal. The initial Soviet reaction was that the proposal did not require the control system that was recommended by the Conference of Experts in 1958 because the present national systems can detect explosions above 4.75 magnitude in all environments. He stated later that "if the United States proposal is adopted it will preserve and even legalize the possibility of continuing the nuclear arms race, of improving various types of nuclear weapons by underground testing."¹⁰⁵

Soviet Union Proposes Temporary Criteria

As a means out of the impasse over technical criteria, the Soviet representative at the 172nd meeting on February 16th introduced a proposal on "temporary criteria." The "temporary criteria" he proposed was:

1. An event may be regarded as suspicious and subject to inspection only if it is located according to the data of several surrounding control posts within an area up to approximately 200 square kilometres, in accordance with the recommendations of the 1958 experts' report.

2. A located seismic event shall be ineligible for inspection if, and only if, it fulfills one or more of the following criteria:

...later in the discussion in regard to a device
 question in regard to being being the standard, the
 stated "that test in the subsequent experiment, that
 that the volume depends on 4.75 would be required, that
 the first phase of the process and that there would be an
 maximum of that test in the case of 4.75.¹⁰¹
Initial reaction to the proposal. The initial
 reaction was that the proposal did not require the initial
 system that was recommended by the Committee of Experts.
 In 1955 because the system showed system was being
 explained above 4.75 magnitude in all experiments, in
 stated later that "at the initial stage proposal is being
 is still possible and even implies the possibility of
 finding the lowest value, of increasing system types
 of various weapons of biological weapons.¹⁰²

Soviet Union's Position on the Issue

As a result of the report, some technical work
 that, the Soviet representative at the 1955 meeting in
 February 1955 introduced a proposal on "temporary criteria".
 The "temporary criteria" on biological weapons was:

1. As soon as it is possible to establish and
 subject to investigation only it is to be established
 to the data of various international control points
 which are set up to approximately 200 meters above
 ground, in accordance with the recommendations of the
 1955 meeting, report.
2. A technical system must still be established
 for inspection it, and only if it is found to be
 one of the following categories:

(a) its depth of focus is established as below 60 kilometres;

(b) its epicentral location is established to be in the deep ocean and the event is unaccompanied by a hydroacoustic signal consistent with the seismic epicentre and origin time;

(c) it is established within 48 hours to be a foreshock by the occurrence /sic/ of a larger event within the accuracy of the determination of the two epicentre;

(d) it is established to be an aftershock of a seismic event of at least magnitude 6 which has been clearly identified as an earthquake by the criteria of sub-paragraphs (a) and (b) above.

3. The basic data for all criteria will be obtained from the control posts, supplementary data not involved in determining the eligibility of a particular event for inspection may be derived from national stations.

The Soviet representative continued that the Soviet Union would agree to the dispatch of inspection teams during the initial period of the operation of the control organization within quotas agreed upon on the basis of the above criteria. He added further,

the scientists of the Soviet Union and the Western Powers would continue the joint study of the question of criteria so as to eliminate any existing difference of opinion and work out and agree upon a complete set of scientifically based criteria which would replace the simplified temporary criteria.¹⁰⁶

At the 173rd meeting, in answer to Western questions in relation to the proposal, the Soviet representative said, "the joint research program would be stipulated in the treaty and would begin as stipulated in the treaty." He added that the program should not need or use nuclear explosions.¹⁰⁷

Western critique of Soviet criteria proposal. At the 180th meeting, the United States representative presented his formal critique of the Soviet temporary criteria proposal. He stated that the United States considers the criteria generally acceptable technically, with qualifications. The qualifications he put forth were:

(1) It will be necessary to reach a satisfactory understanding that if progress in research does not lead to agreement on improved criteria by the end of the initial treaty phase the use of the criteria adopted by this Conference will continue, or some alternative arrangement will be made to ensure that the control organization will not be left without criteria.

(2) 200 square kilometres is too small an area to use as the area of uncertainty in locating a seismic event with the control system. The U.S. position is that the area eligible for inspection consists of that 500 square kilometres which has the highest likelihood of containing the epicentre. When adequately precise regional technical improvements in the system have been developed the area eligible for inspection will be 200 square kilometres which has the highest likelihood of containing the epicentre.

(3) The larger event which follows the foreshock must itself be clearly identified as an earthquake.¹⁰⁸

The problem of criteria was not solved in this period, but the differences between the two positions was not too large and appeared to be negotiable.

Soviet Phased Treaty and Moratorium

On March 19, 1960, at the 188th meeting, the Soviet Union submitted its own proposal on a phased treaty. The proposal stated that the Soviet Government was willing to reach agreement on the basis of the following:

To conclude a treaty on the cessation of all nuclear weapon tests in the atmosphere, in the oceans and in outer space, and of all underground tests which produce seismic oscillations of magnitude 4.75 conventional units or above.

In regard to unidentified underground events producing seismic oscillations below magnitude 4.75 conventional units, which according to the United States contention do not lend themselves to control, the Soviet Government is prepared to agree to the United States proposal to institute a programme of joint research and experiments by the Soviet Union, the United States and the United Kingdom, on the understanding that all parties to the treaty assume at the same time the obligation not to carry out during that period any nuclear weapon tests producing seismic oscillations of magnitude 4.75 conventional units or below.¹⁰⁹

In answer to several questions put forth by the Western representatives, the Soviet representative stated that the joint research program would begin after the treaty was signed, and that the agreement not to test below a threshold of 4.75 magnitude should be a part of the treaty.¹¹⁰

On March 21, he further added that the drafting of the joint research program would be done by the preparatory commission and would last for four or five years. As to the moratorium, if no agreement was reached after four or five years on a criteria, he said, this would not release the parties to the treaty of their obligations. He reaffirmed the Soviet position that the question of inspection quotas must be solved as a political question and the Soviet contention that nuclear explosions were not necessary for the research program. He also stated that

inspections within the limits of the agreed quota could be made for incidents below or above the threshold.¹¹¹

West Conditionally Accepts Soviet Phased Treaty
and Moratorium Proposal

On March 31, 1960, the Western representatives introduced the joint declaration of President Eisenhower and Prime Minister Macmillan which was released on March 29.¹¹²

The United States representative, in commenting on the communique, stated that the essence of the "United States-United Kingdom communique is the decision that those Governments are agreeing to a common approach with the Soviet Union on the over-all framework of this treaty."

He further pointed out

that as soon as our treaty has been signed and arrangements have been made for a coordinated research programme designed progressively to improve the means of control for seismic events below a magnitude of 4.75, the two Western Governments will be prepared to put into effect a voluntary moratorium of agreed duration on nuclear weapon tests below that threshold. This would be accomplished by a unilateral declaration which would be made by each of the three Powers.

He continued that the communique "invited the Soviet Government to join at once with their Governments in making arrangements for establishing and putting into operation such a coordinated research program." The United States representative set forth the Western views in relation to several other points put forward in the Soviet phased

treaty proposal. First, that the Western Powers considered four or five year moratorium as "excessive." Second, the moratorium should not be included in the treaty. Third, that the West felt that nuclear detonations would be necessary as part of the research program.¹¹³

On April 6th at the 194th meeting, the United States representative in replying to several questions asked by the Soviet representative made the following comments in reference to the United Kingdom-United States joint declaration of March 29.

In answer to several questions about the research program, he said,

our three governments will have to agree on whatever coordinated research programme is adopted by us. Further, it is expected that scientists from the three powers would on a full reciprocity basis be able to observe and cooperate on any research program that have already been started.

Thus the United States considered national research programs which would be coordinated between the three powers.

On questions relating to nuclear detonations for research purposes he said,

the United States is convinced that a limited number of nuclear explosions is an essential element of a vigorous seismic research programme. There is no question in our minds but that the best way to learn how to discriminate between nuclear explosions and earthquakes is to use nuclear explosions directly in the research programme.

In answer to questions relating to the moratorium he said, "the moratorium would come into effect when the

Twenty paragraphs, first, that the American people have
 used from the time they were first in "America," second,
 the American people and as included in the treaty.

Third, that the first half of the American people
 is necessary as part of the American people.

On April 21, the first meeting, the United States
 representative in reply to several questions asked by
 the Soviet representative with the following answers: as
 respects the United States, the United States is not
 willing to accept it.

On March 21, the Soviet representative asked the Russian
 representative, he said:

The United States will have to agree to accept
 conditions of the Russian representative in reply to the
 Soviet, it is expected that the Soviet will be
 able to accept the conditions of the Russian
 and the Soviet will accept the conditions of the Russian.

Then the United States accepted the Russian
 conditions and the Russian accepted the United States.

On questions relating to Russian conditions for
 Russian foreign policy.

The United States is satisfied that a limited number
 of Russian conditions is an essential element of a
 Russian foreign policy. There is no
 question in our mind that the first half of
 the Russian people is an essential element of a
 Russian foreign policy.

In answer to questions relating to the Russian
 side, the Russian side will not effect any of the

treaty is signed and agreement has been reached on a program of coordinated research." He added that the moratorium could come into effect before the treaty is signed if a program of coordinated research is agreed upon. The reason for the Western proposal that the moratorium not be included in the treaty was explained as a United States policy to embody in a treaty only those obligations in fields related to disarmament whose fulfillment can be adequately verified. In relation to the length of the moratorium, he referred to a previous statement he made which said, "the exact terms of this moratorium will be developed as plans are worked out for a coordinated research program and in the light of progress towards an adequately safeguarded threshold treaty." As to what would happen if no agreement is reached when the moratorium ends he said that it would end, "otherwise it would be a misnomer to call this a moratorium."

United States proposes research study group. On April 12th at the 196th meeting, the United States representative announced that he had given the other delegations a memorandum requesting a meeting of experts to discuss a coordinated research program.

Prior to the recess on April 14, the Soviet representative had tentatively approved the date of May 11 for the experts meeting which had been proposed by the Western representatives.

Special Aircraft Sampling Flights

During this period, there arose a series of discussions over two aspects of special aircraft sampling flights. The first over observers on these flights; and the second, over routes for these flights.

The Conference of Experts of 1958 had agreed in its recommendations that it might be necessary in certain cases to carry out special flights to locate clouds which might contain radioactive debris from a nuclear explosion. They added that the aircraft and crews should be provided by the host country and that, in most cases, the flights would follow routes previously designated.¹¹⁵

Observers on Aircraft sampling flights. The discussion stemmed from the Western view that there should be one or more observers on aircraft sampling flights. At the 155th meeting on January 18, the Soviet representative repeated their argument that there should be one observer on these flights. On January 25th at the 159th meeting, the Soviet Union submitted a proposal that there should be an observer from the control organization and one from the host country. On February 4th at the 166th meeting, the Soviet representative proposed that the administrator appoint from two to four staff members of the control system as observers on special flights and that such observers be specialists of the system and "appointed on a parity basis from among the nationals of both sides concerned."¹¹⁶

Special Aircraft Landing Flights

During this period, there arose a series of circumstances over the subjects of special aircraft landing flights. The first was observed in these flights and the second, the subject for these flights.

The Commission at January 17, 1954 and agreed in its

recommendation that it might be necessary in certain cases to carry out special flights in order to obtain more exact comparative data from a certain experience. They noted that the aircraft and crew should be provided by the most expert and that, in most cases, the flights would follow certain previously established lines.¹¹²

However, on aircraft landing flights. The first

condition stated from the subject was that there should be

one or more aircraft on aircraft landing flights. At

the 1954 meeting on January 18, the subject was recommended

repeated their request that there should be one aircraft

on these flights. On January 20 at the 1954 meeting, the

subject was repeated a request that there should be an

observer from the subject organization and that the

last meeting. On January 22 at the 1954 meeting, the

subject organization proposed that the organization be

kept from the last meeting of the meeting system

as observers of special flights and that each observer be

specialist of the system and recommended on a certain basis

from among the personnel of this kind organization.¹¹³

At the 185th meeting on March 14th, the representative from the United Kingdom introduced a proposal that authorized the administrator to appoint two observers on special sampling flights but allowed the host country to designate a representative to accompany the observers on the flight.¹¹⁷

The Soviet representative replied to this proposal that the Soviet Union wanted the host country representative to participate in the control operations on a parity basis. He added further that he considered the United Kingdom proposal a departure from the general principle of staffing.¹¹⁸ The representative from the United Kingdom replied that aircraft sampling flights were a special case and had to be treated differently.¹¹⁹

This is as far as this problem was solved during this period, and it was carried forward to the next period.

Selection of aircraft sampling routes. The question of routes for special aircraft sampling flights was brought into the discussion by a proposal by the representative of the United Kingdom introduced on January 18th. He proposed that

as soon as the requirement for a flight is known the administrator will propose a flight route to the party or parties concerned. Once the administrator's proposal is made there will be twenty-four hours for the administrator and the parties to agree on this route or an alternative one. Failing such agreement there will be another twenty-four hours

At the 1954 meeting in London, the representatives of the United States indicated a proposal that authorized the Ambassador to appoint two members to special working parties but allowed the host country to designate a representative to accompany the members of the party.¹¹⁷

The United States representative replied to this proposal that the United States would like to have working parties have to participate in the national operations on a party basis. He asked Britain what he suggested for United Kingdom proposed a separate group of general working parties.¹¹⁸ The representative from the United Kingdom replied that almost working parties were a special case and had to be treated differently.¹¹⁹

There is no way in which working parties could be this period, and it was decided to have in the next period, rejection of strictly working parties. The question of control for special interest working parties was brought into the discussion by a proposal by the representative of the United Kingdom announced on January 1955.

He proposed that we want to see the representative for a village in Japan the representative will propose a special party to the party on special interest. From the representative's proposal it was found that the working parties for the representative was the working parties on the basis of an alternative one. Finally, the agreement that will be reached early in 1955.

for the party or parties to satisfy the commission with an alternative route.¹²⁰

The Soviet representative objected to the proposal and referred to the recommendation of the 1958 Conference of Experts that "it is sufficient that flights for the purpose specified should be made along routes laid down in advance."¹²¹

On February 1st at the 163rd meeting, the Soviet representative outlined the Soviet views on aircraft sampling routes. He stated,

the aircraft flights must be carried out in a certain way and in accordance with the circumstances and requirements, so that if a nuclear explosion in the atmosphere has really taken place, and if data obtained from other methods confirm this, if its location and yield have been determined, and if by mathematical or other means the route of the movement of a cloud has been worked out through various calculations, taking into account the wind, altitude and so forth, then of course, the route which will be selected for the despatch of the aircraft will have to be such as will traverse that particular area, so that the aircraft can fly through the area and collect samples.¹²²

On April 13th at the 197th meeting, the United Kingdom introduced a new proposal to solve the mutual problem of routes of aircraft sampling flights and the controversy over observers. The proposal was a package deal whereby the Western powers would accept the Soviet proposal on permanent routes for sampling flights to be established in accordance with criteria to be established in Annex I on the System, if the Soviet Union would accept the Western

For the party and the state, the party is the state.

The invited representation obtained in the proposal

We observe that (1) is sufficient for (2) and (3).

2. *How much time did you spend on this assignment?*

CSI, *continued*

On February 1st of the 1930s meeting, the 1930s

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...and the ...

long horizontally off the horizontal at the eye

regulations, so that it is always possible to

1998-1999, 2000-2001, 2002-2003, 2004-2005, 2006-2007, 2008-2009, 2010-2011, 2012-2013, 2014-2015, 2016-2017, 2018-2019, 2020-2021, 2022-2023, 2024-2025, 2026-2027, 2028-2029, 2030-2031, 2032-2033, 2034-2035, 2036-2037, 2038-2039, 2040-2041, 2042-2043, 2044-2045, 2046-2047, 2048-2049, 2050-2051, 2052-2053, 2054-2055, 2056-2057, 2058-2059, 2060-2061, 2062-2063, 2064-2065, 2066-2067, 2068-2069, 2070-2071, 2072-2073, 2074-2075, 2076-2077, 2078-2079, 2080-2081, 2082-2083, 2084-2085, 2086-2087, 2088-2089, 2090-2091, 2092-2093, 2094-2095, 2096-2097, 2098-2099, 2100-2101, 2102-2103, 2104-2105, 2106-2107, 2108-2109, 2110-2111, 2112-2113, 2114-2115, 2116-2117, 2118-2119, 2120-2121, 2122-2123, 2124-2125, 2126-2127, 2128-2129, 2130-2131, 2132-2133, 2134-2135, 2136-2137, 2138-2139, 2140-2141, 2142-2143, 2144-2145, 2146-2147, 2148-2149, 2150-2151, 2152-2153, 2154-2155, 2156-2157, 2158-2159, 2160-2161, 2162-2163, 2164-2165, 2166-2167, 2168-2169, 2170-2171, 2172-2173, 2174-2175, 2176-2177, 2178-2179, 2180-2181, 2182-2183, 2184-2185, 2186-2187, 2188-2189, 2190-2191, 2192-2193, 2194-2195, 2196-2197, 2198-2199, 2200-2201, 2202-2203, 2204-2205, 2206-2207, 2208-2209, 2210-2211, 2212-2213, 2214-2215, 2216-2217, 2218-2219, 2220-2221, 2222-2223, 2224-2225, 2226-2227, 2228-2229, 2230-2231, 2232-2233, 2234-2235, 2236-2237, 2238-2239, 2240-2241, 2242-2243, 2244-2245, 2246-2247, 2248-2249, 2250-2251, 2252-2253, 2254-2255, 2256-2257, 2258-2259, 2260-2261, 2262-2263, 2264-2265, 2266-2267, 2268-2269, 2270-2271, 2272-2273, 2274-2275, 2276-2277, 2278-2279, 2280-2281, 2282-2283, 2284-2285, 2286-2287, 2288-2289, 2290-2291, 2292-2293, 2294-2295, 2296-2297, 2298-2299, 2300-2301, 2302-2303, 2304-2305, 2306-2307, 2308-2309, 2310-2311, 2312-2313, 2314-2315, 2316-2317, 2318-2319, 2320-2321, 2322-2323, 2324-2325, 2326-2327, 2328-2329, 2330-2331, 2332-2333, 2334-2335, 2336-2337, 2338-2339, 2340-2341, 2342-2343, 2344-2345, 2346-2347, 2348-2349, 2350-2351, 2352-2353, 2354-2355, 2356-2357, 2358-2359, 2360-2361, 2362-2363, 2364-2365, 2366-2367, 2368-2369, 2370-2371, 2372-2373, 2374-2375, 2376-2377, 2378-2379, 2380-2381, 2382-2383, 2384-2385, 2386-2387, 2388-2389, 2390-2391, 2392-2393, 2394-2395, 2396-2397, 2398-2399, 2400-2401, 2402-2403, 2404-2405, 2406-2407, 2408-2409, 2410-2411, 2412-2413, 2414-2415, 2416-2417, 2418-2419, 2420-2421, 2422-2423, 2424-2425, 2426-2427, 2428-2429, 2430-2431, 2432-2433, 2434-2435, 2436-2437, 2438-2439, 2440-2441, 2442-2443, 2444-2445, 2446-2447, 2448-2449, 2450-2451, 2452-2453, 2454-2455, 2456-2457, 2458-2459, 2460-2461, 2462-2463, 2464-2465, 2466-2467, 2468-2469, 2470-2471, 2472-2473, 2474-2475, 2476-2477, 2478-2479, 2480-2481, 2482-2483, 2484-2485, 2486-2487, 2488-2489, 2490-2491, 2492-2493, 2494-2495, 2496-2497, 2498-2499, 2500-2501, 2502-2503, 2504-2505, 2506-2507, 2508-2509, 2510-2511, 2512-2513, 2514-2515, 2516-2517, 2518-2519, 2520-2521, 2522-2523, 2524-2525, 2526-2527, 2528-2529, 2530-2531, 2532-2533, 2534-2535, 2536-2537, 2538-2539, 2540-2541, 2542-2543, 2544-2545, 2546-2547, 2548-2549, 2550-2551, 2552-2553, 2554-2555, 2556-2557, 2558-2559, 2560-2561, 2562-2563, 2564-2565, 2566-2567, 2568-2569, 2570-2571, 2572-2573, 2574-2575, 2576-2577, 2578-2579, 2580-2581, 2582-2583, 2584-2585, 2586-2587, 2588-2589, 2590-2591, 2592-2593, 2594-2595, 2596-2597, 2598-2599, 2600-2601, 2602-2603, 2604-2605, 2606-2607, 2608-2609, 2610-2611, 2612-2613, 2614-2615, 2616-2617, 2618-2619, 2620-2621, 2622-2623, 2624-2625, 2626-2627, 2628-2629, 2630-2631, 2632-2633, 2634-2635, 2636-2637, 2638-2639, 2640-2641, 2642-2643, 2644-2645, 2646-2647, 2648-2649, 2650-2651, 2652-2653, 2654-2655, 2656-2657, 2658-2659, 2660-2661, 2662-2663, 2664-2665, 2666-2667, 2668-2669, 2670-2671, 2672-2673, 2674-2675, 2676-2677, 2678-2679, 2680-2681, 2682-2683, 2684-2685, 2686-2687, 2688-2689, 2690-2691, 2692-2693, 2694-2695, 2696-2697, 2698-2699, 2700-2701, 2702-2703, 2704-2705, 2706-2707, 2708-2709, 2710-2711, 2712-2713, 2714-2715, 2716-2717, 2718-2719, 2720-2721, 2722-2723, 2724-2725, 2726-2727, 2728-2729, 2730-2731, 2732-2733, 2734-2735, 2736-2737, 2738-2739, 2740-2741, 27

Source: U.S. Census Bureau, *Marriage, Divorce, Remarriage in the 1990s*, Current Population Reports, 1995, Table 10.

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Colony counts, taking into account the whole

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is retained for the duration of the character's life.

There is no need to specify the value of α in the above definition. The value of α is determined by the value of β and the value of γ .

What to do and the strategy for the case

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for multiyear treaties will be the 2000-2001 season, when a typhoon hit

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proposal for two observers on aircraft sampling flights not nationals of the country concerned.¹²³

The Soviet Union did not reply to this package proposal during this period, and the issue remained unsettled.

Summary

This period had been marked by extensive debate on the technical problems of the system and appeared to be headed for a definite impasse. However, various proposals, the United States phased agreement, and the Soviet Union's phased agreement and moratorium, appeared to show the way out of the deadlock. With the Western conditional acceptance of the phased agreement and a moratorium linked to a research program, chances for agreement improved. Further, most of the other points separating the sides were aired and narrowed by proposals.

The meetings were recessed on April 14 and scheduled to reconvene on April 25, 1960.

VIII. THE SEVENTH PERIOD APRIL 25, 1960 -

AUGUST 22, 1960

Introduction

The seventh period of the negotiations began in Geneva on April 25, 1960, and forty-eight formal meetings were held until the Conference recessed on August 22. The main topics discussed were: the phased treaty and

moratorium proposal; staffing and the "deputies" problem; the seismic research program; the Soviet quota inspection proposal; draft Annex I on the detection and identification system; draft Annex II on privileges and immunities; and discussion and adoption of an article for the treaty on definitions of terms and units.

Continued Discussion of the Phased Treaty and Moratorium Proposal

At the 202nd meeting on May 3rd, the Soviet representative introduced the Soviet Union's official reply to the joint declaration of President Eisenhower and Prime Minister Macmillan of March 29, 1960. This declaration proposed a phased treaty with a moratorium below a magnitude of 4.75 for an agreed time in conjunction with a joint seismic research program. The Soviet representative first said that the length of the research program is closely linked to the duration of the moratorium. The Soviet Union, he said, has recommended a joint research program that will last four to five years and feels that the duration of the moratorium should not be less than the period of the joint research program. He continued that the Soviet Union has no objections during the implementation of the program of using a strictly limited number of joint underground nuclear explosions to verify the methods and instrumentation of underground tests below the threshold. Further, he said, the Soviet Union would accept the Western

modern geographic thinking and the "geographic" position
 the United States occupies; the United States position
 geographic thought, Answer I on the definition and identification
 system, that Answer II on principles and methods; and
 discussion and adoption of an outline for the study of
 Geography in general and world.

Committee on the Study of the Geographic Position of the United States

At the first meeting on May 1st, the United States
 committee introduced the United States' official reply to
 the Joint Commission of Geographic Education and Research
 which was held on March 25, 1960. This committee
 proposed a course study with a curriculum below a map-
 1960 at 4.5 for an agreed time in comparison with a
 Joint National Research Program. The Joint Representative
 stated that the report on the National Program is
 closely linked to the history of the continent. The
 United States, he said, has recommended a Joint Research
 Program that will have two parts: the first part will
 the history of the continent which has been the
 basis of the Joint Research Program. He continued that
 the United States has no objection to the program
 that the program be used as a strictly limited number of
 Joint National Research Program as well as the national
 and international of independent states since the program
 further, he said, the United States would accept the program

proposal that the moratorium not be a part of the treaty but be carried out by unilateral declaration. He concluded by saying,

the fate of the entire proposal hinged on the duration of the moratorium and that the expiration of the moratorium without agreement would not automatically release the parties of their obligations and the renewal of atomic weapon tests.¹²⁴

The Seismic Research Program

On May 27th at the 206th meeting, the Soviet representative reaffirmed the Soviet Union's convictions in the recommendations and conclusions of the 1958 Conference of Experts. He then stated that the Soviet Union agreed to the Western proposal for a limited number of nuclear explosions as part of the research program because of the Western insistence of their importance. Therefore, he said that since the Soviet Union does believe in the validity of the 1958 Conference of Experts, the research and the experiments of the joint research program should be carried out by the United States on its own territory. However, he added, that because it would be a joint research program, Soviet specialists should be given the opportunity of taking part in the carrying out of nuclear explosions; and, further, the Soviet Union must have guarantees that the nuclear explosions shall not be used for military purposes.¹²⁵

United States submits proposal on safeguards. On June 2nd at the 208th meeting, the United States

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representative submitted a proposal on safeguards in connection with peaceful detonations under the research program. He said that the proposal was put forth within the perimeters of certain limiting criteria that the United States must adhere to; namely, the desirability of conducting some nuclear detonations this year to not lose the forward momentum of our seismic research, the need to take account of existing domestic legislation which regulates all considerations involving special nuclear materials, and the desire to prevent the spread of nuclear weapon technology to countries not now possessing it. He then set forth the proposal on safeguards as:

First, the party shall detonate only nuclear devices of proven design in its experiments.

Second, the devices used in these experiments shall be taken from a special depository of previously deposited devices established by the party within its territory. We consider that such prior deposit should take place within the shortest possible time and thus propose, specifically, 15 August of this year as a time-limit. The devices, suitably packaged, shall be under the constant surveillance of representatives of the other parties or, if preferable, of an international group. The devices may not be altered, and devices, once withdrawn from the depository, may not be redeposited. A device removed from the depository in order to be detonated shall remain under surveillance until detonated.

Third, the representatives of the other parties or of the international group responsible for surveillance shall be permitted to observe all aspects of the detonation and its instrumentation except for the interior of the package.

Fourth, no diagnostic instrumentation will be used in the near vicinity of the device except for specified yield measurements. Such yield measurements as are made under this provision will, of

course, be under the surveillance of the other parties or the international group, as the case may be, and all the information thus obtained will be available to them.¹²⁶

Soviet Reply and counter-proposal. On June 15th at the 214th meeting, the Soviet Union formally replied to the United States proposal on safeguards for research nuclear explosions. The Soviet representative first rejected the United States proposal and then submitted a Soviet proposal on adequate safeguards for research nuclear explosions. The Soviet proposal was:

1. A full description and blueprints of the structure of the device to be exploded must be made available beforehand to the other participants in the programme and these must be allowed to inspect the internal and external structure of the device.

2. The representatives of all participants in this programme must be present at the place of assembly and explosion of the device.

3. The instruments and measurement apparatus shall be installed by all the participants in the programme.

4. All data obtained as a result of the explosion shall be made available to all the participants in the programme.¹²⁷

United States introduces new proposal. On July 12th the United States representative introduced a new proposal as a way out of the deadlock over safeguards for experimental nuclear explosions for seismic research. He proposed that:

Each of the three powers at this table supply in approximately equal quantities a number of nuclear devices of older and militarily out-dated design to be used in the research detonation programme. The devices thus assembled from the three countries would . . . be placed in a pool for use by any of

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United States and Canada - 1955

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United States and Canada - 1955

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the three countries in their research programmes. All the devices in the pool could be opened for non-destructive examination of their separate components at the time of their deposit in the pool. This examination would be aimed at allowing all parties to view the internal design of the devices and at ensuring that the devices were safe and suitable for the purposes intended. Following, examination, the devices would be kept under joint technical surveillance until detonated. Observation and inspection of the explosion site and emplacement of the instruments by representatives of the three original parties would be much the same.¹²⁸

Soviet reply to this new proposal. On August 2nd at the 237th meeting, the Soviet Union made its formal reply to this new proposal by the United States. The Soviet representative stated that the Soviet Union had no objection to the establishment by the United States and the United Kingdom of a pool in which these countries desire to deposit nuclear devices for carrying out underground nuclear explosions for purposes of research. However, he continued, the Soviet Government cannot agree that the Soviet Union should be involved as a supplier of nuclear weapons to the United States for research which the Soviet Government believes to be unnecessary. Later in the discussion, the Soviet representative said that the safeguards proposed by the Soviet Union in its proposal would apply to any country that carried on experimental nuclear explosions under any research program. However, he added that the Soviet Union was not planning nor did

The three countries in their research programmes. All the devices in the world could be covered for non-ferrous substances of their respective countries at the time of their disposal in the world. This examination would be aimed at allowing all parties to view the technical design of the device and at showing that the device was safe and suitable for the proposed treatment. Following, however, the device would be kept under strict control. The device would be destroyed, destroyed and its operation of the equipment will and equipment at the Government by representatives of the three national bodies would be with the same.

Reply to the Soviet Union.

At the 17th meeting, the Soviet Union made the following reply to this new proposal by the United States. The Soviet representative stated that the Soviet Union had no objection to the establishment of the United States and the United States as a part in which these countries desire to support certain devices for the use of which general nuclear equipment for purposes of research, however, no equipment, the device equipment would give that the Soviet Union would be located as a supplier of nuclear material to the United States for research which the Soviet Government desired to be immediately taken in the discussion. The Soviet representative said that the equipment proposed by the Soviet Union in the proposal would help to the Soviet Union in carrying on experiments nuclear equipment under the Soviet Union. However, he stated that the Soviet Union was not planning to do

they consider any experimental nuclear explosions as necessary now or in the future.¹²⁹

This period ended without any meeting of the minds on the problem of safeguards for nuclear explosions for research purposes. However, there was a general agreement on the principle that safeguards should be established to ensure that no military advantage is derived from the experimental nuclear explosions for seismic research.

On-Site Inspection and the Quota Proposal

United States introduces draft article titled

"On-site Inspection of Seismic Events." On July 13th, the United States representative introduced a draft article on on-site inspection of seismic events. In summarizing the draft article proposal, he said:

Under paragraph 1 the administrator is to notify all parties to the treaty whenever he determines, in accordance with criteria to be stated in annex I, that a seismic event eligible for on-site inspection has occurred. In this paragraph we make special provision for the possibility that an area eligible for inspection may lie in the territory of more than one party; the effect of our draft would be that events in such cases would be considered to have occurred in the territory of each party concerned so that, if an inspection of the event were to take place, such inspection would be counted separately against the quota number of each party within whose territory the inspection were carried on. This, of course, is regardless of the side of the boundary between the territories of those parties on which any evidence of an incident might be found.

Under paragraph 2 we provide for the immediate despatch of inspection groups by the administrator when events occur in the territory of any of the

they consider "an advertisement not for clothing as such—

151

This report was prepared by the author.

As the number of categories for analysis increases the
researcher's power, however, there are a number of problems
on the part of the first category which is examined in
which the no-missing category is derived from the ex-
cluded category which is excluded from the analysis.

On this occasion all the following

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United States representative inspected a first article in
on-site inspection of vehicle system. An examination was
first article inspection. An examination

Under paragraph 1 the establishment of the entity
all parties to the treaty should be notified,
in accordance with Article 11 of the treaty.
That a certain event might be an indication
has occurred. In this paragraph no other special
provisions are made regarding the event which
the treaty may be in the territory of one of
the parties to the treaty or not. It is not
events in such cases would be considered to have
occurred in the territory of one of the parties
to the treaty. It is not intended in the treaty to take
into account the fact that the event would be an indication
against the party which is not a party to the treaty.
Therefore the treaty would be considered to be a treaty
between the parties to the treaty and not a treaty
between the parties to the treaty and not a treaty
between the parties to the treaty and not a treaty.
Any evidence of an indication might be found.
Under paragraph 2 no provision for the immediate
suspension of the treaty is made by the establishment
of the event in the territory of one of the

original parties, if a request for an inspection is made within a fifteen-day limit by the original party or parties of the other nuclear side.

Paragraph 3 deals with eligible events occurring in territories of non-original parties. Here we would permit any party to address a request for inspection to the control commission. If the commission should decide that an inspection ought to be carried out and if a quota number were still available for use for an inspection on that territory in that year, then the commission would direct the administrator to instigate such an inspection. We have included a special provision to the effect that in this instance the party liable to inspection should abstain from voting when the decision of the commission was being made.

In Paragraphs 4 and 5 we cover the matter of determining the number of on-site inspections which may be carried out on the territory of each treaty party. As for the three original parties, this number would be stated in the treaty after we had reached agreement. As for other parties, the number would be determined by the commission, after consultation with the party, by a two-thirds vote of the commission. We further provide that, in any case, this number could not be lower than two, and there is also a formula for arriving at a provisional number pending the commissions determination of the party's regular annual number.

In paragraph 6 we made provision for review of all these numbers for all parties, and here we require that this review take full account of the practical experience of the operations of the system and measures taken to maintain or improve its effectiveness. The numbers may be revised by the commission with the proviso that no number shall fall below two or be less than 30 percent of the average number of underground events of seismic magnitude 4.75 or above occurring in a party's territory and remaining unidentified under the criteria which will be agreed and of course stated in annex I.

In paragraph 7 we provide for the commencement date of the annual inspection periods during which the inspection number of each is to be used.

In paragraph 8 special provision is made to cover the possibility that a party may expressly request inspections on its territory, or that with its agreement a number of inspections above its quota may be carried out.

The final paragraph of this article states that

"the administrator shall make available to all Parties to the Treaty within twenty-four hours after receipt all reports submitted to him by on-site inspection groups, together with relevant data and analysis.¹³⁰

The United States representative, in concluding his statement, said that the draft article was submitted by the United States in an attempt to put together in one article the elements that deal with on-site inspections that were included in the previous United States draft articles VI and IX on the functions of the Control Commission and Administrator and his staff previously submitted in a revised form on July 1, 1959.¹³¹

Soviet critique of United States proposal. On July 26th at the 234th meeting, the Soviet representative gave his formal reply to the United States proposal on on-site inspections. In his initial remarks, he said that the Soviet position in relation to on-site inspection was based on three arguments.

First, that a demand for an inspection is an official expression of suspicion that the State to which the inspection group is to be sent has carried out a secret underground nuclear explosion and has thus violated the treaty on the cessation of nuclear weapon tests.

Second, that an on-site inspection affects the security interests of the State on whose territory this measure is carried out.

Third, that inspection will be used not in order to apprehend violators, since we believe that there will not be any, but only in order to announce, after carrying out such an inspection, that suspicions that a nuclear explosion had been carried out were completely unfounded and that the treaty was being observed.

Because of these arguments, he said that the number of inspections which the sides should be allowed for the purposes of mutual security should be small. The suggested United States figure of 20 inspections on the soil of the Soviet Union a year, he continued, was "completely unrealistic and unacceptable."¹³²

Soviet Union introduces quota number proposal.

Following his initial remarks about the Soviet views on inspection and the United States proposal, the Soviet representative introduced a proposal for a specified number of on-site inspections to be included in the treaty. He proposed that the treaty contain a provision to the effect,

That on the territory of the Soviet Union and likewise on the territories of the United States and the United Kingdom, and on territories under their jurisdiction up to three visits per year may be made by inspection groups to each of the above mentioned countries, to any place where, according to readings of instruments at control posts, unidentified events suspected of being nuclear weapon explosions have been observed. An inspection group within the specified limits shall be dispatched by the control commission for on-site investigation of an event suspected of being a nuclear explosion, at the request of any of the original parties to the treaty . . . and the concurrence therewith of the other parties shall not be required.

He added that the Soviet Union considered it "essential" to use its quota for on-site inspection of any event below or above the 4.75 threshold, and that this quota was subject to review in accordance with the same

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Following the initial review, the United States and the United States Agency for International Development (USAID) have been working to develop a proposal for a special mission to the United States to be conducted in the future. It is expected that the results of this mission will be used to develop a proposal for a special mission to the United States to be conducted in the future. It is expected that the results of this mission will be used to develop a proposal for a special mission to the United States to be conducted in the future.

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There is a small, dark, rectangular object, possibly a piece of wood or metal, lying on the ground. It is oriented horizontally and appears to be a small, rectangular block. The object is dark in color, possibly black or dark brown, and has a rough, textured surface. It is located in the lower right quadrant of the image, near the bottom edge. The background is a light, sandy or gravelly surface, and the overall scene is dimly lit, suggesting an outdoor setting at night or in low light conditions.

provisions adopted for review of the system, two years after adoption of the treaty and annually thereafter.

In reference to the draft articles on on-site inspections submitted by the Soviet Union and the United States, he declared that there was not too much difference; and if the United States approaches the problem realistically, the problem could be settled quickly.¹³³

United States comments on the Soviet quota proposal.

The initial United States comment was to reaffirm the United States views on on-site inspection as: first, to ascertain if there has been a violation; and second, to deter a potential violator. The United States representative commenting further said that there is very little deterrent factor in the Soviet proposal of only three inspections out of several thousand incidents. The quota number must be based or related, he said, to the number of unidentified events.

At the 236th meeting, the United States representative commented further on the Soviet quota proposal. He said the United States does not want to inspect every unidentified seismic event. It is impracticable and unnecessary. All the United States desires, he continued, is that the number of inspections must be mathematically related to the number of unidentified seismic events. The purpose of having any control system, he added, is to

provision subject for review on the ground, the basis
 after analysis of the treaty and treaty documents.
 The reference to the first meeting on the subject
 specifically mentioned by the United States and the United
 States, the Committee, that treaty was not even discussed
 and it was never stated whether the treaty was
 also, the Committee would be willing to accept.

United States Committee on the United States Treaty
 The initial United States Committee was in session for
 United States since no specific information was given
 otherwise it seems that a similar one would be
 given a potential situation. The United States Committee
 five Committee Bureau said that it was in very little
 contact with the United States in only three in-
 terviews out of several interviews conducted. The question
 raised was of what it related, in fact, the United States
 Committee was.

At the time meeting, the United States Committee
 five Committee Bureau on the United States Treaty, it
 said the United States was not in contact with
 Committee Bureau, it is in contact with the
 Committee. All the United States Committee, the Committee
 is that the United States Treaty was not discussed
 related to the United States Committee Bureau, the
 Bureau of the United States, in fact, in the

provide for reasonably effective assurance that all parties to the treaty are fulfilling their obligations. He then went on to say that the present state of technology did not allow the identification of all events as either man-made or natural; therefore, on-site inspections are necessary to confirm this fact and are not a suspicion of a State of having violated the treaty.

In relation to the argument of the Soviet Union that the number of inspections must be kept small to protect the security interests of the country being inspected, he stated that this was a familiar argument "but not the least completely convincing." He added that the inspection area would be quite small, 200 to 500 kilometers, and the means to get the team to the area and its equipment to the area would be subject to the control of the host country. Further, he continued, there had never been any objection to the number of observers that the host country could use at the site to protect its own interests.

He then said that he was rejecting the quota proposed on technical grounds; however, "how the final quota is arrived at does not necessarily have to be based on technical grounds." Further, he added, the United States figure of 21 inspections was based on the estimate of 105 unidentified events that their experts estimated for the Soviet Union annually and taking 20 per cent of this total as acceptable.

The Soviet draft article on on-site inspections was also inadequate, he continued, because, first, it fails to state how the parties are to be informed about the occurrence of events eligible for inspection; second, it fails to make any provision at all for on-site inspections on the territories of non-original parties; and third, it does not establish the basis upon which quotas are to be reviewed or revised periodically.¹³⁴

This period ended on August 22 without any further progress on solving this stumbling block.

Inspection Criteria

Another main aspect of the problem of inspection, criteria, was also given wide treatment during this period. The Soviet Union had submitted a proposal for temporary criteria on February 16, 1960, and the United States had submitted amendments to this proposal on March 2, 1960.¹³⁵

United Kingdom proposal. On May 12th at the 205th meeting, the United Kingdom representative submitted a proposed amendment to the temporary criteria in an attempt to break the deadlock. The remaining issue separating the sides from reaching agreement was the size of the inspection area. The Soviet proposal stated 200 square kilometers and the United States amendment 500 square kilometers as the maximum area for inspection. The proposal put forth by the United Kingdom representative proposed

that 200 square kilometers be the standard area of inspection in cases where adequate travel-time curves exist and where data from a sufficient number of control posts surrounding the epicenter have been obtained. In cases where one or the other of the two conditions is not fulfilled, then the larger area of 500 square kilometers would be open for inspection.¹³⁶

Soviet comments. The Soviet representative at the 217th meeting on June 22 commented on the United Kingdom amendment proposal said that the conclusions of the Conference of Experts in 1958 had put forth the area of localization of 100-200 kilometers and subsequent technical discussion had not disproved this conclusion. Therefore, he continued, the Soviet Union believes that the conclusion of the experts should be used because the three powers had agreed on the conclusions of that conference. He clarified the Soviet position when he said that

200 square kilometres is a localization in those cases where an event takes place in the centre or is surrounded on all sides by control posts. But if the control posts are situated to one side of the event, in such cases we provide for the possibility of a more extended area in which inspection will be carried out.¹³⁷

New United States proposal. On July 13th, the United States representative introduced a proposal on temporary simplified criteria for on-site inspections.

This proposal incorporated the original Soviet proposal, the suggested United States amendments, and the United Kingdom suggested amendment. This article, he said, was to be incorporated into annex I on the detection and identification system. On the issue of localization of events for inspection, the one issue not agreed upon, it stated:

In cases where adequately precise regional travel time curves are available, and where consistent arrival times are available from control posts surrounding the epicentre, that is, from control posts at least one of which lies in every possible 90 degree sector around the epicentre, the area eligible for inspection will be 200 square kilometres. In cases where adequately precise regional travel time curves are not available, or where data from control posts lying in every possible 90-degree sector around the epicentre are not available, an area of 500 square kilometers shall be eligible for inspection. The area eligible for inspection shall be chosen so as to have the highest likelihood of containing the epicenter.¹³⁸

No further action was taken on this issue during this period.

Draft Annex I - Detection and Identification System

Another important aspect of the treaty that was given extensive discussion during this period was draft annex I on the Detection and Identification System. On July 20th at the 231st meeting, the United States representative introduced a new and revised version of annex I which incorporated all the modifications in the system recommended by the United States since it was originally introduced on December 18, 1958. The draft annex was

divided into five main parts; part I was a general description of the system, part II dealt specifically with the individual components of the system, part III dealt with data reporting and evaluation, part IV concerned itself with support facilities including communication system, and part V dealt with the phasing of headquarters and regional offices. It was in regards to part V that the majority of the discussion was concerned.

Soviet views. On August 11th the Soviet representative put forth the Soviet views in regards to Part V of the annex on the phasing of the installation of the detection and identification system. He first commented that he believed that the proposal was departing from the principle of equality because it only installed control posts in the Southern Hemisphere in the second and third phase. This he felt would be to the advantage of the West because they do most of their testing in the Southern Hemisphere.

The second comment he made was in reference to the number of control posts to be established in the countries of the original parties. The figure for the United States of eleven he felt was too low, and the figure of twenty-one for the Soviet Union was much too high. He then recommended two control posts in European Russia because it is largely an aseismic area. In relation to the Eastern part of Russia, he stated that it was necessary to consider the total number of control posts needed for all Asia,

thirty-seven. Eastern Russia, he said, contains about 40 per cent of the area of continental Asia, but only a small percentage of the total seismic area is contained in the Soviet Union; whereas, almost the entire rest of Asia is seismic. Therefore, he recommended that no more than thirteen control posts should be installed on the Asian territory of the Soviet Union. This would make the total acceptable control posts in the Soviet Union fifteen.

He then went on to comment on the installation schedule for aircraft sampling flights over international waters and the installation of shipboard stations. The Soviet Union, he said, considered that because they did not present any great difficulty in inaugurating, they should be put into effect during the first phase. He also stated that the formation of inspection teams would be pointless until the control posts have been installed and were operational because inspection can only be justified on technical data from these control posts.

In concluding, he submitted a Soviet draft proposal on the installation schedule of the system incorporating the Soviet views on the weakness of the proposed United States draft.¹³⁹

This is where the discussion stood when this period came to an end.

On 20th January, 1961, the British Government announced that it had decided to withdraw its troops from Cyprus. This decision was based on the fact that the Cyprus Government had decided to remain neutral in the Cyprus dispute. The British Government also announced that it had decided to withdraw its troops from the Golan Heights in 1961. This decision was based on the fact that the Israeli Government had decided to remain neutral in the Golan Heights dispute. The British Government also announced that it had decided to withdraw its troops from the Sinai Peninsula in 1961. This decision was based on the fact that the Egyptian Government had decided to remain neutral in the Sinai Peninsula dispute.

10. The fact that the Commission has not yet received any information from the Government of the United States regarding the activities of the Committee is a matter of concern.

should be put into effect during the first phase. The main
studies with the formation of independent teams will be
possible with the studies which have been finished and
new operational methods independent of the existing
as technical data from these studies.

the Soviet Union in the summer of 1955, and the following month it was again announced that the Soviet Union was sending a typical first generation

[illegible]

The Deputies Problem and Staffing

Deputies controversy. The Soviet Union had introduced the problem of the deputies with its proposed amendments to draft articles VI and IX on the functions of the control commission and the administrator and staff. The amendment recommended appointment of two deputies by the control commission, one to represent each side.¹⁴⁰

New Soviet proposal. On June 21st at the 216th meeting, the Soviet representative submitted a new proposal on "deputies" as a means out of the deadlock on the issue. He first commented that there were two outstanding problems on the question of the administrator and his "deputies." First, "the problem of filling the administrator's post when vacant" and second, "the problem of the administrator's deputies." As to the first problem, he felt that it was not serious because someone could always be found that was acceptable to both sides. For solving the second problem, he introduced a proposal that three deputies be appointed: one from each side, and one upon agreement between the two sides. Further, he continued, this third deputy selected by agreement of both sides would act in the capacity of the administrator when he was unable to fulfill his duties or when the post became vacant but only for the remainder of his predecessor's term.¹⁴¹

United Kingdom introduces new Western proposal. On July 6th, the representative of the United Kingdom introduced a draft amendment to the article on the functions of the administrator and staff. The amendment proposed that:

The commission shall appoint the Administrator and the First Deputy Administrator; these appointments shall require the concurring votes of the original Parties on the Commission. In addition, the administrator shall appoint four other Deputy Administrators; two of these Deputy Administrators shall be appointed with the approval of the Governments of the USSR, and two shall be appointed with the approval of the Governments of the United Kingdom and the United States of America.

The term of office of the Administrator shall be a period of three years. The initial term of office of the First Deputy Administrator shall be a period of two years; all subsequent terms of office of the First Deputy Administrator shall be a period of three years. The term of office of the other Deputy Administrators shall be a period of three years. Each shall be eligible for reappointment. The First Deputy Administrator shall act in place of the Administrator in case of absence or vacancy. An Administrator appointed to fill a vacancy which has occurred before the expiration of the term provided by this Article shall hold office only for the remainder of his predecessor's term, but shall be eligible for reappointment.¹⁴²

Soviet comments. The Soviet representative gave his official reply to this new Western proposal on "deputies" at the 130th meeting on July 13. He said that they agreed to the amendment in principle, but they could not agree to the system of appointment because it was unsound and unfair. By the Western proposal, he said, "the first deputy would be independent of the administrator as far as procedures of his appointment was concerned, whilst the

other four deputies would be placed in an inferior position." He stated the Soviet position as that all of the deputies should be equal in status. Based on these comments, he recommended that they should all be appointed using the same procedures and that they be recommended or approved by the Governments of the side concerned. He then introduced a draft proposal incorporating the above viewpoints of the Soviet Union.¹⁴³

Western comments on the Soviet counter-proposal.

The United States representative commenting on the new Soviet proposal on August 5, stated that the "only outstanding difference between the sides on this question remained the method of appointment of the four functional deputies." He continued that the United States could not accept the Soviet viewpoint on the selection of the deputies by the Control Commission. The arguments he gave were that to do so would be contrary to good administrative practice and it would not take into consideration the interests of the Administrator in selecting his staff functional heads within the guidelines established by the Commission. Further, he stated that it was not too clear what voting procedures the Commission would use on this question and there were doubts that there might arise the possibility of the Commission disapproving the nominations of a government.¹⁴⁴

This is as far as this problem was solved during this period, but there had been decided progress and the differences appeared to be negotiable.

Staff problems. The other area of disagreement still remaining was the staffing problem. The principle of "thirds" had been generally agreed upon, but it was in the dispensing of the last third that caused the disagreement.

New United States proposal. On May 9th at the 203rd meeting, the United States representative introduced a new staffing proposal that incorporated the provision of the "thirds." The proposal provided that staff appointments be evenly distributed in thirds, one-third for the Soviet Union, one-third for the United States and the United Kingdom, and one-third to nationals of other countries. In regards to the third third the proposal stated that "appointments of scientific and technical staff shall be made in such proportions that the legitimate interests of the Parties to this Treaty, including the original Parties, will not be prejudiced." Further, the proposal stated that the head of the control post shall be a national of a country other than the host country. Also, on-site inspection groups shall be composed of technically qualified personnel who are not nationals of the country being inspected but that country may designate one or more observers to accompany the inspection group.¹⁴⁵

Soviet reply and counter-proposal. The initial Soviet reaction to this new Western proposal was to repeat past arguments that without specific language on the allocation of the third third it would work to the advantage of the West. Further, the Soviet Union objected to the exclusions of host country personnel on the inspection groups.¹⁴⁶

On June 20th at the 215th meeting, the Soviet representative introduced its own staffing proposal. It set forth the Soviet views on the allocation of the third third equally among the three elements. It also stated that on-site inspection teams should be organized on the principle of parity. The proposal further stated that the chief or acting chief of each control post or inspection group should be a national of the host country and his assistant should be from the other side of the original parties. Further, it stipulated that appointments of specialists from nationals other than the original parties shall be made in equal proportions from personnel recommended by the original parties.¹⁴⁷

United States comments on Soviet counter-proposal. At the 217th meeting on June 22, the United States representative commented on the new Soviet staffing proposal. First he objected to the Soviet proposal that appointments be made from lists furnished by governments. Second, he

[illegible]

objected to the extension of the thirds principle to the auxiliary personnel of the headquarters. Third, he said, the Soviet provision that no scientific and technical personnel who were nationals of non-original parties could be given positions in the control organization unless they had first been recommended by one or more of the original parties was not acceptable. He concluded by saying that the criticisms put forth were not of principle but of the method involved.¹⁴⁸ Although there was additional discussion on these proposals, no formula could be found to settle the outstanding differences on the problem of staffing.

Adoption of the Definition Article

In order to dispel problems of interpretation of technical criteria, the United States representative proposed on May 11, at the 204th meeting, that an article on definition of units and terms be added to the treaty. At the 235th meeting on July 27, the Conference adopted the draft article on definitions of units and terms which was introduced by the United States with a small Soviet technical amendment.¹⁴⁹

Summary

This period did not see any concrete results, outside of the draft article on definitions, however, there

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—and officers' salaries are \$44 (day shift) and \$47 (night shift).

was a great deal of discussion on the main issues still separating the two sides. There were many proposals put forth by both sides in an effort to solve some of these differences. However, with the introduction of proposals and counter-proposals the differences were being constantly narrowed down to basic principles on which so far there had not been much give and take.

IX. EIGHTH PERIOD SEPTEMBER 27, 1960 -
DECEMBER 5, 1960

Introduction

The eighth period of negotiations began on September 27, 1960. During the period, twenty-seven meetings were held. This period found the representatives discussing the main issues which were keeping the Conference from reaching agreement on a final treaty. These included: the moratorium on the phased treaty; the installation schedule of the detection and identification system; the quota and on-site inspections; and the problem of deputies. Additionally, progress on the final draft treaty was made with the adoption of Annex II on privileges and immunities.

The Moratorium

Although the moratorium was not to be included in the treaty but would be established by unilateral

was a great deal of discussion on the main Japanese bill regarding the two states. There were many Japanese who were of the opinion that it was an effort to solve some of the differences. However, after the introduction of amendments and counter-proposals the differences were being merely delayed until the final decision on which we had agreed. But that was not done until 1960.

75. FIFTY-SEVENTH CONFERENCE 17, 1960 -

NOVEMBER 1, 1960

Introduction

The 57th session of negotiations began on September 17, 1960. During the period, forty-two meetings were held. This period found the representatives discussing the main issues which were before the Conference from reaching agreement on a final treaty. These included: the suspension of the phased treaty; the installation schedule of the American and identification system; the quota and non-quota issues; and the parties to business. Additionally, proposals on the final treaty were made with the adoption of Annex II on privileges and immunities.

The Negotiations

Although the negotiations were not so heated as the treaty had been established by unilateral

declaration by the separate governments, it was a chief obstacle to agreement on the phased treaty.

On September 27th at the 247th meeting, the United States representative presented the United States proposal on the moratorium. He stated that the moratorium should be effective upon signature of the treaty for such period as then still remains of the two-year seismic research program, plus three months to review the results of that program. In support of the proposal, that would end at the same time as the research program, he added,

this approach is eminently sound because the purpose of the moratorium is to avoid the undesirable aspects of a resumption of nuclear testing below the 4.75 threshold during the very period when research is being carried on, in the hope of making possible an extension of effective controls to seismic events of a magnitude of less than 4.75.

Further, he concluded that the United States is opposed to moratoriums because it runs contrary to the principle that there should be no disarmament obligations without controls. Therefore, he added, the moratorium must be kept short and be consistent with the time needed for the research program.¹⁵⁰

On October 5, 1960, at the 250th meeting, the Soviet representative formally commented on the suggested United States proposal on the moratorium. He first said that the Soviet Union considered the proposal "ambiguous and vague." This, he said, led the Soviet Union to be puzzled by the proposal. The main preoccupation, he continued,

appears to be

not a desire to improve and increase the effectiveness of control over underground low-yield nuclear explosions but a desire to be rid altogether of the moratorium or at least to be freed as quickly as possible from any obligations in connexion with the moratorium.

Further, he said, "we all agree that the period of the moratorium should correspond approximately to the duration of the scientific research program." The Soviet proposal of a moratorium of four to five years, he continued, was based on a United States scientific estimate that the research program would require about three years and that to establish an effective system of detection would require about a few more years.

He concluded by saying that the two-year period put forth by the United States proposal was too rigid a time limit, the Soviet proposal of a four to five year program will provide the possibility of organizing a program that would be possible of achieving progressive improvements in the methods of control over events below the threshold. The duration of the moratorium, he added, cannot be shorter than the time needed for the completion of the joint research program. Another argument he put forward for the Soviet proposal was that a research program must be conducted in the light of the actual experience of an operating system and the control system could take from three to four years to be operational in the first stage.¹⁵¹

that a leader to improve and stabilize the situation
 have of control over government and that the
 government was a leader to be the situation in the
 government as at least to be free as much as
 possible from any obligation to maintain the
 situation.

Further, he said, "we will agree that the period of the
 government should be somewhat approximately to the situation
 of the scientific research program." The leader proposed
 at a conference of four to five years, the situation, was
 based on a United States scientific situation that the
 research program would require about three years and that
 an additional six months of research would require
 about a few more years.

As indicated by saying that the two-year period was
 based by the United States government was not right a time
 limit, the leader proposed of a time of five years program
 will provide the possibility of organizing a program that
 would be possible at achieving progressive improvement in
 the methods of control over events in the situation.
 The question of the situation, he said, cannot be solved
 then the time needed for the completion of the joint re-
 search program. Further argument is not needed for the
 leader proposed was that a research program must be con-
 ducted in the light of the actual situation as a
 scientific system and the scientific system could take more
 than to four years to be completed in the first period.

The United States representative defended the United States proposal at the 260th meeting on October 27. In his initial remarks, he stated that the position of what policy the United States will follow if the seismic research program is not successful at the termination of the research program and moratorium period, "it does not know and that policy must be established only at that time."

In answer to the Soviet statement that the Soviet proposal was based on United States scientific estimates, he declared that this estimate was based on starting a program from scratch including the necessary preparatory time. The current United States proposal is based only on actual experimental time, taking into consideration the actual preparations that have been made and the program can now start from an advanced position.

He further commented that the United States cannot for reasons of principle accept the Soviet proposal that at the end of the two-year research program and the three-month period for consultation, the moratorium should continue automatically.

In regard to the starting time of the research program, he said, the United States position was that the program should start as soon as possible, and before the

The United States representative declared the United States proposal as the 1950-51 meeting on October 27. In his initial remarks, he stated that the position of most policy the United States will follow is the extension of research program in two categories of the continuation of the research program and maintenance period. It does not mean that that policy must be maintained only at that time.

In answer to the Soviet statement that the Soviet proposal was based on United States scientific studies, he declared that this attitude was based on a misunderstanding from Soviet thinking the necessary temporary time. The necessary United States proposal is based only on Soviet experimental time. Based into consideration the Soviet proposition that have been made and the program can now start from an advanced position.

He further commented that the United States cannot be assured of scientific success the Soviet proposal that at the end of the two-year research program and the three-month period for completion, the necessary studies must be maintained.

In regard to the existing plan of the research program, he said, the United States position was that the program should start as soon as possible, and before the

signing of the treaty if agreement could not be immediately reached.

He concluded his remarks by saying that "there is agreement that the moratorium should expire at the same time as the research programme, only disagreement existed on the length of the program."¹⁵²

Installation Schedule of the Detection and Identification System

Another of the major areas of disagreement which was given wide discussion and attempts to settle during this period was the phasing schedule of the detection and identification system. On July 20, 1960, the United States had submitted a revised draft of annex I on the detection and identification system. The Soviet Union objected to portions of this draft annex particularly the number of control posts in the Soviet Union (21) and the exclusion of the establishment of posts in the Southern Hemisphere during the first phase.¹⁵³

United Kingdom Introduces new proposal on phasing.

On September 29th at the 248th meeting, the United Kingdom representative introduced a proposal on phasing in an attempt to break the deadlock. He proposed that phase I be completed in four years instead of three as proposed in the United States draft. Further, the proposal stated that control posts on twenty oceanic islands should be

aligned by the treaty. It appears that the United States has been unable to secure the necessary agreement from the British Government to the extent of the time as the necessary program, only the necessary extent on the basis of the program.¹¹¹

Registration Schedule at the United States

Review of the major items of discussion which was given since discussion and attempts to settle during this period was the opening schedule of the discussion and identification system. On July 22, 1960, the United States has submitted a revised draft of the system. The revised system and identification system. The revised system is based on review of this draft which was previously the matter of control points in the United States (ii) and the existing to the establishment of points in the domain. Summary during the first year.¹¹²

United States Information System
In September 1960 at the time meeting, the United States representatives introduced a proposal on basis as an attempt to settle the situation. It appeared that there is no agreement in that year instead of there is present in the United States draft. Further, the proposal stated that control points on nearly domain points would be

installed in phase I, instead of twelve under the former proposal. Also, he proposed, the installation of the ten control posts on ships should take part in phase I. However, he emphasized two major points: one, that phase I should only cover the territories of the original parties; and two, that inspection should start as soon as possible. He explained that the phasing schedule in phase I would provide a net of control posts in the metropolitan and oceanic territories of all three original parties so that seismic events may be capable of being located in any of these territories. This, he said, would be a net of about 3,400 kilometers spacing, and would enable the simplified criteria to be applied. Further, he added that inspection would begin in these territories as soon as a capability for location exists. Therefore, he concluded, under this proposal, inspections would be capable of being initiated throughout the territories of the original parties at the very latest two years after the treaty went into force.

He then explained how the new proposal would work. The proposal broke phase I into two periods, A and B. Phase I A would be completed within two years and the entire phase in four years. This proposal then put nine control posts in the Soviet Union, six in the United States, one in the United Kingdom, plus the twenty oceanic posts and ten shipboard posts. Phase B would complete the

and the proposed route. There is a small number of
one in the United States, and the proposed route
located near the center of the country, and is the only one
entirely free of any other. This proposed route is
shown in the map. It is a straight line from the
The proposed route is a straight line from the
to the proposed route. There is a small number of

control posts in the original parties to twenty for the Soviet Union, eleven for the United States, and one for the United Kingdom. He further outlined that the oceanic posts would probably break down to one for the Soviet Union, six for the United States, and thirteen for the United Kingdom. He added that phase I does not contain any control posts in Africa, but the United Kingdom was willing to compromise on this point since she was the only one involved. Phase II and III would complete the network of control posts to 180 in the Northern and Southern Hemisphere, primarily on lands other than the original parties. Phase II would begin within one year and be completed within five after signing of the treaty. Phase III would begin within two years and be completed within six. Thus, the entire control post network would be installed in six years from the time the treaty went into force.¹⁵⁴

Soviets comments. On October 19th at the 256th meeting, the Soviet representative commented on the United Kingdom phasing proposal. He initially stated that there was apparent agreement on the following questions:

The length of the three phases of the installation schedule for control posts; the length of each particular phase, as well as the total length of all three phases; the installation schedule for posts on oceanic islands; the schedule for putting ship posts into operation; the installation schedule for posts in South America, Europe and on the metropolitan territory of the United Kingdom.

Where major disagreement remains is the question of the number of control posts to be established on the territory of the Soviet Union. He contended that fifteen control posts for the Soviet Union was sufficient and within the recommendations of the 1958 Conference of Experts. He explained that thirteen posts in Soviet Asia would satisfy the spacing proposed by the experts, 1,000 kilometers in seismic areas and 1,700 kilometers in aseismic areas. To support this view, he pointed out the fact that although Soviet Asia contains 40 per cent of the land mass of Asia, it only contains about 10 per cent of the seismic area and, therefore, the distribution of the posts should be primarily on the basis of an aseismic area.¹⁵⁵

West disagrees with Soviet analysis. Contrary to the initial remarks of the Soviet representative, the question of the schedule of installation of the detection and identification system remained unsettled because the Western representatives pointed out that their proposal for a four-year first phase was primarily based on the splitting of the phase into two periods to facilitate early inspection.

Soviet reply to the split phasing proposal. On November 21st at the 268th meeting, the Soviet representative replied on the split phasing proposal. He formally rejected the splitting of phase I into two parts, phase A

to be completed in two years and the entire phase in four years. He termed the proposal a move backward instead of forward to meet the Soviet proposal. He continued, a four-year period for the installation of the first phase of control posts "is perfectly reasonable and is based on the shortest period within which this enormous work can be carried out."

In reply to a series of Western questions on his rejection of the proposal, he reaffirmed the Soviet position that inspection would not begin until the end of the first phase when the control system had been fully implemented on the territories of the original parties. He stated further that the simplified criteria that was proposed by the Soviet Union was based on the premise that a control network would be in existence in order to furnish the technical facts to support the criteria for on-site inspections to begin. He repeated the Soviet view that the time when this condition will be met is when phase I of the installation schedule of the control posts has been completed; namely, about four years after the treaty comes into force.¹⁵⁶

Thus the question of annex I, the Detection and Identification System, was farther from agreement than what appeared to be the case when the period started.

Inspection Quotas

There was a great deal of discussion about the quota system for on-site inspections, but there was no change in positions during this period--the Soviet proposal for three per year and the Western proposal for twenty per year.

The Problem of the Deputies

The problem of the deputies for the administrator was near solution after the Soviet acceptance of the Western proposal of five deputies. However, the Soviet Union wanted all the deputies appointed by the Control Commission after the recommendation or approval of the governments according to their nationality. To this the West objected.¹⁵⁷

New Western proposal. At the 257th meeting on October 20, the representative from the United Kingdom submitted a new proposal on the appointment of the deputies in an effort to break the deadlock. He proposed that the appointment of all five deputies should be made by the administrator subject to the approval of the Commission. In the case of the first deputy, the Commission's approval would also require the concurring votes of the three original parties on the commission.¹⁵⁸

Soviet comments. The Soviet representative commenting on the new proposal on the selection of the

Legislative Council

There was a great deal of discussion about the
 the system for the first time, but there was no
 change in position during this period—the Council
 would not have any power and the Western proposal for
 the year.

The Problem of the Council

The problem of the Council for the first time
 was made public after the first meeting of the
 Western Council of the Council. However, the
 Council wanted all the Council members to be
 elected after the recommendation or approval of the
 Council. It was decided to make the Council
 elected.

The Council's Council on the 15th meeting

October 10, the representative from the United Kingdom
 submitted a new proposal on the Council of the Council
 in an effort to make the Council. He proposed that
 the Council of all the Council members be made by the
 Council subject to the approval of the Council. In
 the case of the first Council, the Council's approval
 would also make the Council. The Council would
 be elected.

Final Council The Council's Council

Meeting of the Council on the 15th meeting of the

deputies stated that the Soviet Union still preferred to have the five deputies appointed by the commission, but the United Kingdom proposal was a step forward. However, he added, the Soviet Union does not consider that the administrator should have the right to reject personnel recommended by a government nor should the control commission in the case of posts reserved for one of the original parties. He continued that if this was the case, a situation might arise where one party might find itself without representation in the higher administrative echelon.¹⁵⁹

The problem of the deputies appeared to be headed toward some form of a solution, but this is as far as it went during this period.

Summary

There was very little progress made during this period even though several compromise proposals were put forth by the West. However, the draft annex II on privileges and immunities was adopted on October 17 at the 255th meeting, but there was very little disagreement over this aspect because the Soviet Union and the West had accepted these terms in conjunction with other international organizations.

Toward the end of this period the majority of the meetings were spent in outlining the areas of separation

between the two sides and in trying to place the blame for non-agreement on the reluctance of the other side to make any move toward the position of the other side.

The Conference recessed on December 5, 1960, and was scheduled to reconvene on February 7, 1961.

X. NINTH PERIOD MARCH 21, 1961 -
SEPTEMBER 9, 1961

Introduction

The Conference was originally scheduled to reconvene on February 7, 1961. However, the United States requested a delay until March 21 to enable the new United States administration to make a comprehensive review of the past negotiations and the United States position in relation to the discontinuance of nuclear weapon tests.

This period commenced on March 21 and covered sixty-seven meetings and finally ended in an impasse and was recessed on September 9, 1961, after both sides resumed nuclear testing. The Soviet Union broke the moratorium on August 30th, and the United States resumed testing after a Western proposal to refrain from testing in the atmosphere was refused by the Soviet Union on September 6 by continued testing and was formally rejected on September 9. The negotiations actually regressed due to the introduction of the Soviet "troika" proposal.

between the two sides and in trying to place the blame for
misconduct on the side of the other side in many
any more honest and just manner.

The Committee received on December 1, 1941, and
was satisfied to recommend on February 7, 1942.

4. FIFTH YEAR WORK, 1941 -

January 2, 1942

Introduction

The Committee was originally organized in 1939
and on January 1, 1942, however, the United States
presented a policy which made it in effect the one United
States administration as well as a representative body of
the two organizations and the United States position in
relation to the administration of United States policy.
This period commenced on March 11 and lasted about

seven months and finally ended in an increase and was
terminated on December 1, 1941, after which time
ended. The United States administration as
regards the United States position during 1941 and
Western proposed to remain then existing in the atmosphere
was retained by the United States on September 1 of 1941
ending and was finally terminated on December 1, 1941.
The United States position as of the termination of
the United States position.

Discussion revolved around the outstanding issues, the key issues being the "troika," the new Western proposals on the outstanding issues, the inspection problem, the disarmament link, and the resumption of nuclear testing. The United States also introduced a complete draft treaty which incorporated all the proposals and views put forth by the Western delegations up to this time.

The Soviet "Troika" Proposal

The Soviet representative, as Chairman of the 274th meeting on March 21st, took the floor and gave a long opening statement covering all the aspects of the Soviet position and reviewing the reasons for failure of the Conference to achieve an agreement. He then introduced, in his concluding remarks, a new Soviet proposal for

the replacement of the administrator of the control system by an administrative council consisting of three members, representing respectively (1) USSR and its allies - 1 member; (2) United States, United Kingdom and their allies - the second member; (3) Neutral States - the third member of this administrative council. The three members of the administrative council, who would compose the collective executive organ of the control system, would act as a single whole and would agree amongst themselves on all steps which they would undertake in the execution of their duties.¹⁶⁰

Western reply to Soviet "troika" proposal. On March 30th, the United States representative replied to the Soviet proposal to replace the administrator with a three member council. In his initial remarks he said that the

Discussion followed during the following days.
 The first day was devoted to the study of the
 results of the investigation, the second day
 the discussion of the results of the investigation.
 The third day was devoted to a complete study
 of the results of the investigation and the
 fourth day to the discussion of the results.

The first day's work

The first representative, as Chairman of the
 meeting on the first day, read the first and gave a long
 statement covering all the aspects of the first
 position and reviewing the progress for the first
 session to achieve an agreement. In the afternoon, in
 his concluding remarks, a new level proposed for

the relationship of the administration of the
 system by an administrative committee consisting of
 three members, representing respectively (1) the
 and the other - 2 members (2) United States, United
 Kingdom and other allies - the United States (3)
 United States - the United States of the United States
 United States. The three members of the committee
 further committee, the United States and the United
 States committee of the United States, would not
 as a single whole and with equal representation
 on all aspects which they would maintain in the
 committee of the United States.

Second day's work in the first session

On the second day, the United States representative
 opened the session by giving the administration of the
 system. He then stated that he was not

Soviet concern about domination of the control system by the west was

unfounded because the control system we have postulated would operate independently of political considerations. The control system by its very nature should be able to operate independently, and scientifically, and therefore free of political influence. /Further, he added, if there was any doubt of this the proposal of the Western delegations for parity representation as between the Soviet Union and its allies and the United States and the United Kingdom and their allies should have removed that doubt once and for all.

He commented that the control commission is the chief policy-making organ of the control system and the system would operate under general directives laid down by the commission.

As to the administrator, the United States representative said, he is not a free agent, he is restricted in two ways: "first, he works under policies established by the commission; second, he works under procedures prescribed in the treaty." Additionally, he added, the principle of parity that had been proposed with the appointment of the deputies fully protects the Soviet Union's interests.

In conclusion he said the Soviet proposal of an executive committee "would be unworkable even with the best of good will." He continued,

Where rapid action is required as it so often will be if the control system is to be effective in investigating unidentified seismic events - which it must do while critical seismological and meteorological evidence is still fresh or available - the administrative council idea would be a

complete failure even if three men of similar outlook were involved.

Further, he added, this proposal is an addition to the Soviet veto list after they had assured the Western representatives that they would not add any new items. This new proposal for an administrative council by the Soviet Union, he contended, would give its representative a total and absolute veto on every act of the executive head of the control organization.¹⁶¹

On April 20th at the 294th meeting, the United States representative continued his discussion of the "troika" issue. The problem of the administrator is so important he said because it is the essence of the executive or administrative function to assure the rapid and efficient operation of the system. He went on to say:

This is not the policy-making or directing function, which belongs only to the control commission. Rather it is the job of making certain that the precise provisions of the treaty and the orders of the commission are fully implemented. That this will be no small job is evident from the scope and function of the control organization as a whole. There will be thousands of staff members in the 100 control posts, at a large Vienna headquarters, on inspection teams, and at satellite tracking stations. All of those persons will have specified duties, and their activities will have to be properly meshed into a unified whole. It will require great efforts to make sure that this complicated system functions smoothly. It cannot happen automatically. Orders will have to be given to cover hundreds of thousands of problems which will continually arise.

He commented further that it is a recognized fact

that in large organizations and administrative units, including governments, that a single chief executive officer is the approach used by all. And he added,

this method of supervising people and getting things done seems to have nothing to do with ideology; the same administrative technique is used in the Soviet Union as in the United States and Great Britain.

He continued that the Soviet proposal for an "administrative council" of three members to represent the three elements in the control organization, these members would be agents of their respective principals and not officials of the control organization and this runs contrary to the concept of international civil servants.

Further, he said,

the unanimity requirements in this council's decisions is the complete antithesis of an arrangement for effective control. The function of an executive organ in an organization such as the one we hope to create is vital if control operations are to have any meaning. Even if one or another individual procedure could be implemented without the administrator's decision, that would be meaningless when the totality of control system operations could be brought to a halt by a three-man council. With one man as the chief executive agent, the control commission can clearly hold him responsible for what is or is not done. With three men having both an equal voice and a right of veto authorized by the treaty itself . . . the possibilities for mischief and confusion would be endless.

He concluded his remarks by saying,

in all fairness we ask the Soviet Union to face realities. It cannot appear as the champion of strict international armament controls when it insists on subordinating the implementation of all control measures to its own national veto.

It cannot expect to make progress in the disarmament field without joining with other parties in mutual accommodations necessary to satisfy the objective requirements of adequate controls.¹⁶²

Soviet defense of the "troika." At the 1972 meeting on April 25th, the Soviet representative defended the Soviet proposal for a three-man "administrative council" to replace the single administrator. He argued that the Western assertion that this would give the Soviet Union control over the control organization was unfounded and not supported by facts. He pointed out that practically all the operational procedures would be embodied within the treaty and the "administrative council" would not be able to change them. Also, in regards to the criteria, he said, they would not be able to effect this because it would be specifically set forth in the treaty and would not be changeable by the council. He repeated his arguments that the only way that there could be a practical, impartial, and objective implementation of the treaty provisions would be by an "administrative council" as proposed by the Soviet Union. He further commented that the entire organization has been organized along the principle of thirds and thus the principle is recognized and accepted by the West. In conclusion he said that the Western insistence on a single administrator is a disguised attempt to convert the organization to its own advantage. And he added, "it would be impossible to find a single person that would

It cannot expect to make progress in the climate
 need that would justify other parties in
 mutual consultation necessary to achieve the
 objective requirements of a common position, but

Control system of the "Gulf" - At the 1970 meeting

on April 1970, the United States Administration proposed the United

States for a three-man "administrative council" in the

place of the single administration. He argued that the system

proposed that the United States would give the United States control

over the control of operations was between the United States and the

United States. He pointed out that practically all the

operational procedures would be controlled within the United States

and the "administrative council" would be in the United States

United States. Also, in regard to the United States, he said,

they would not be able to effect any change in the United States

specifically not to be in the United States and would not be

controlled by the council. He repeated his arguments that

the only way that there would be a practical, operational,

and effective administration of the United States

would be to have an "administrative council" in the United States

United States. He repeated his arguments that the United States

administration has been operating along the principle of states

and that the principle is to be followed and applied to the

United States. He pointed out that the United States

as a single administration is a practical system to have

over the operations of the United States. He pointed out

"It would be impossible to have a single person who would

not fall into the three categories recognized and, therefore, he would be unable to be impartial and objective in carrying out his duties."¹⁶³

"Troika" debate continues. On April 27th at the 299th meeting, the United States representative again took up the issue of the "administrative council" or as it was generally called the "troika." He termed this problem as the issue that was most central and would spell success or failure for the negotiations.

In reply to the previous Soviet arguments that the council could not modify or take action contrary to the treaty, he said,

Our concern is not that on occasions the administrative council might engage in incorrect actions in running the control system; our concern derives from our certainty that, under the council scheme, there might well be no meaningful action at all, no implementation of the treaty, and no control. This is the very crux-of the matter-that, after we have sacrificed our unilateral freedom of action to test nuclear weapons for our own defense, we are not to be assured of any effective control over whether other parties which have pledged themselves to do the same are also living up to their obligations. Our ability to check up on them is to be subject to any permission that they themselves may give to allow themselves to be checked up on, even though they may be cheating.

He concluded his remarks on the subject by saying, "the fundamental issue is whether the Soviet Union will accommodate itself to the technical and organizational requirements of meaningful control." He added, "I am waiting patiently and I am prepared to wait patiently, for

a constructive Soviet Union approach to whatever disturbs it. On unrealistic demands, such as that for an administrative council, there can, I submit, be no compromise."¹⁶⁴

United States General Statement and New Proposals

In the opening statement of the United States representative on March 21, 1961, he outlined the Western position and proposed suggested solutions for the outstanding issues separating the two sides. He said the major issues and the suggested proposal for solving them were:

First, on the length of the research program, the Western powers agree with the Soviet Union that a longer period is needed than the two year proposal put forth by the United States for the initial research program. He proposed a three year period for the initial research program.

Second, on the question of safeguards for research nuclear explosions, the Western governments are prepared to accept the Soviet proposal put forward on June 15, 1960. He added that this acceptance was put forward on the condition that the Western governments receive the same inspection privileges if the Soviet Union detonated any nuclear devices.

Third, on the question of detonation of nuclear

a committee of the British Association for the Advancement of Science, which was formed in 1884, and which was the first of its kind in the world. It was the first of its kind in the world.

THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

In the opening address of the British Association for the Advancement of Science, which was delivered by the President, the following words were spoken: "The British Association for the Advancement of Science is the first of its kind in the world. It was the first of its kind in the world."

It is the duty of the British Association for the Advancement of Science to promote the advancement of science in all its branches. It is the duty of the British Association for the Advancement of Science to promote the advancement of science in all its branches.

It is the duty of the British Association for the Advancement of Science to promote the advancement of science in all its branches. It is the duty of the British Association for the Advancement of Science to promote the advancement of science in all its branches.

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It is the duty of the British Association for the Advancement of Science to promote the advancement of science in all its branches.

devices for peaceful purposes, the Western Powers are prepared to accept the same safeguards.

Fourth, in relation to testing in outer space, he recommended that the conference adopt the recommendations of the Technical Working Group I which was submitted to the conference on July 10, 1959.

Fifth, on the question of control posts, he stated, the Western Powers would approve moving two control posts out of Soviet Asia, thus reducing the total number of control posts on Soviet territory to nineteen. In conjunction with this move, the United States would move one of its control posts either north or south of its borders. He re-emphasized that the Western Powers still hold to the splitting up of the phasing schedule in Phase I of the installation schedule into two periods to be completed within four years.

Sixth, in relation to the question of inspection quota, he reaffirmed the Western position that the number of inspections be linked to the number of unidentified events. Because of this fundamental principle, he reaffirmed the Western proposal for twenty on-site inspections per year in the Soviet Union. He added, that the Western Powers were also willing to accept the concept of equality in assigning inspection quotas, equal for each of the three original parties.

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Seventh, he reaffirmed the Western position on the simplified criteria and the size of the area of localization.¹⁶⁵

Eighth, he reaffirmed the Western position on staffing of inspection teams, special aircraft flights and the nationality of the head of a control post.¹⁶⁶

Ninth, in regards to the budget, he said, the Western powers accept the Soviet proposal that each original party should have a veto in the commission in approving the total annual budget of the organization but not individual items. In addition, he added, the contributions should be equal for the United States and the Soviet Union with the United Kingdom paying a somewhat smaller share.

Tenth, on the question of the composition of the control commission, he remarked, if a workable agreement on the control organization is found, the Western powers would be prepared to accept East-West parity on the control commission. He then proposed that the control commission should be enlarged to include four Western States, four Soviet bloc States and three neutrals.

In concluding his statement, the United States representative said that "we have now set forth in general terms an overall proposal for a nuclear test ban treaty which ought to be acceptable to the Soviet Union."¹⁶⁷

On March 22nd at the 275th meeting, the United

States representative continued to outline the Western position. In regards to the seismic research program, he said the United States would welcome Soviet participation in its seismic research program and Soviet scientific criticism, but do not recognize any unilateral Soviet right to insist on altering the contents of our own program. He continued that the Soviet Union should only be concerned about nuclear detonations to be sure that they were not used for the purpose of weapons development. He added that the United States still considered it essential to investigate decoupling techniques in the research program. In relation to the safeguards that the Western Powers would accept for nuclear detonations in the research program, he stated them as: first, British and Soviet representatives would be given blueprints of the nuclear devices to be used, and they would be permitted to examine the device inside and out; second, after inspection, the devices would be reassembled and kept under Anglo-Soviet surveillance until actually exploded; third, instruments and apparatus could be installed at the site of explosion by British and Soviet scientists; four, all the data obtained from the explosion would be made available to the other two countries.

In regards to the moratorium, he proposed that it would last for three years and would have the same limits

as the research program. Further, he continued, "upon termination of the moratorium each of the parties, on the basis of information then available to it, will have to decide what it will do." He added that there should be consultation among the original parties before the moratorium runs out for selecting some alternate rather than just letting the moratorium run out. He concluded by saying that the United States "wants and always wanted a comprehensive test ban treaty as soon as it can be adequately controlled."¹⁶⁸

At the 278th meeting on March 27th, the United States representative continued his outline of the Western position. He proceeded to go into greater detail about the problem of the criteria for inspection; the quota system for on-site inspection; and the Western position in relation to them.

His initial remarks were directed to point out that any inspection quota, no matter how high, would remain entirely hypothetical and illusory if the criteria were so worded that no seismic event were ever certified as eligible for inspection. He added however, that the criteria would only become relevant when the control post system had been installed in proper locations with adequate spacing. Further, he said, the inspection process

as the research program, (b) the organization of the research work of the parties, on the basis of information then available to it, will have to decide what it will do. It seems that there should be consultation about the subject before the work begins, and the subjecting some discussion with them just before the work begins. It will be assumed by saying that the United States has always been a representative body, and that it is the only body that is controlled.

As the work begins to move, the United States representatives should be aware of the state of the work. It is proposed to go into greater detail about the progress of the work, and to discuss the work system for co-ordination, and the work system in relation to them.

The United States are always to be the only subject of the work, and the work is to be entirely systematic and literary. It is to be a work of the United States, and it is to be a work of the United States.

It is to be a work of the United States, and it is to be a work of the United States. It is to be a work of the United States, and it is to be a work of the United States. It is to be a work of the United States, and it is to be a work of the United States.

would be effective only if the inspection teams were properly organized and equipped.

The United States representative then went on to point out seven ways in which the inspection process could be blocked: first, inadequate or improper spacing or location of control posts; second, the criteria might be so drafted as to make some unidentified events ineligible for inspection or unduly restrict the area of inspection; third, the right of veto by the party to be inspected; fourth, failure to use the best technical methods; fifth, lack of confidence if the inspection teams were wholly or partly composed of nationals of the host country; sixth, if the number of inspections were so small in relation to the number of unidentified events that violators would face little risk of being detected; and seven, unreasonable delay in beginning on-site inspections.

In conclusion, he said that the Western proposals were submitted to prevent the above seven methods of obstructing inspections from happening with its resulting disagreement.¹⁶⁹

On March 28th, the United States representative went into greater detail on the Western position on staffing. He initially stated that there was agreement on several points: first, that all employees of the control organization should have the status of international civil

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 The United States representative has said he
 said that after the war in which the Japanese had
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 On the other hand, the United States representative
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servants; second, that nationals of all parties should participate; third, that all employees should be acceptable to their own governments; fourth, that the technical staff should be recruited in equal thirds, one-third from the United States and the United Kingdom, one-third from the Soviet Union, and one-third from other countries.

Disagreement remained with the Soviet Union over their proposal that the administrator should not have the right to refuse personnel recommended by governments. He said the Western position was that "the organization will be obliged to take some qualified national of that party for the job, but he must not have to take the first, or perhaps the second, person so recommended."

There also is disagreement over the distribution of the third third, but he said that there appears to be a means of reaching an agreement. He explained,

by this I mean that we have in mind that some treaty provision will make it mandatory for the administrator to keep a numerical balance within the third-third between the USSR and its associated powers, on the one hand, and the United States and the United Kingdom and their respective powers, on the other. Apart from this balance the rest of the third third, if any, could be made up of non-associated powers, namely generally, of neutrals.

In regards to staffing of inspection teams and aircraft sampling flights, he reaffirmed the Western view that this cannot be done by nationals of the inspection country because this would introduce an element of

"self-inspection" and undermine confidence in the work of the control organization.

As to the nationality of the chief of the control posts and the head of inspection teams, he stated, he could not be a national of the host country because he would be required to make judgments which might give rise to conflicts of loyalty.¹⁷⁰

On March 29th, the United States representative reviewed the Western position on high-altitude inspection. He recommended that the satellite system recommended by the Technical Working Group I be installed within six years after the signing of the treaty.¹⁷¹

Soviet Reply to the New Western Proposals

On April 4th at the 282nd meeting, the Soviet representative delivered a formal reply on some aspects of the new Western proposals.

First, he remarked that there now appears to be agreement that the recommendations of the Technical Working Group I should be included in the draft treaty for the control of high-altitude explosions.

Second, he commented, that the Western proposal to accept the safeguards on research nuclear explosions was noted with satisfaction. He added,

the sole reason why the USSR is insisting on its conditions of control is that it is indispensable

[sic] for the other side to have the assurance, by the safeguard, that when research nuclear explosions are being carried out by the United States no loop-hole will be left, directly or indirectly, for the improvement of existing, or the testing of new types of nuclear weapons.

As to the question put forth by the United States representative that the safeguards proposed by the Soviet proposal would apply to any signatory party which tested nuclear explosions for research purposes the Soviet representative stated that they would, as he had previously stated at the 254th meeting.

Third, as to the United States proposal concerning approval of the budget with the concurring votes of the original parties, he agreed with the Western position on this point but reaffirmed the Soviet position that it should also apply to individual items and parts of the budget. He defended this position by saying,

it is necessary that the structure and all the parts of the budget should be agreed upon among the original parties to the treaty. Only such an approach will ensure approval of the budget as a whole in the control commission.

Fourth, in regards to the share of contributions, he disagreed with the Western proposal and recommended that the contributions be shared equally among the three original parties.

In concluding his statement, the Soviet representative said that there appears to be agreement among the parties in regards to the following question:

But the other side to have the advantage, by the way, that when we have a certain number of things we will be left, usually on the whole, the improvement of existing, in the making of new types of metal work.

As to the question of the United States being

convinced that the advantage proposed by the United

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on control over the discontinuance of nuclear weapon tests at high altitudes and in outer space; on the conditions governing the nuclear explosions to be carried out under an agreed seismic research programme and the conditions of control over nuclear explosions to be carried out for peaceful purposes; and on the question of the approval of the total sum of the budget in the control commission by agreement among the original parties to the treaty.¹⁷²

On April 10th, the Soviet representative commented on other parts of the Western proposals.

First, in regards to the proposals for the safeguards for research nuclear explosions and for peaceful purposes. He interpreted this proposal to mean that after the devices had been inspected internal and external, the device would remain under observation by representatives of the Soviet Union until actually detonated, and this includes the possibility of control over all the processes connected with preparing the device for detonation to ensure that the device being detonated is actually the one that had been previously inspected. As to instrumentation, he said, the Soviet Union interprets this to mean that

Soviet specialists may set up their instruments both in the immediate neighbourhood of the device which is to be detonated, and in the tunnels leading to the detonation chamber and on the surface of the earth at any distance from the site of the explosion. Further, Soviet experts will have every opportunity of inspecting the system by which the device is detonated, and also of inspecting the environment surrounding the detonation chamber, both before the explosion and after.

Second, in regards to the composition of the control commission he said, the Soviet government accepts the

as provided for the dissemination of material which
 bears no direct relation to the subject of the
 Commission's report. The Commission is of the
 opinion that the dissemination of material which
 bears no direct relation to the subject of the
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emphasized that the device being discussed is actually the

Western proposal that the control commission be composed of four representatives of the Western Powers, four representatives of the socialist countries, and three representatives of neutral States.

Third, in regards to the moratorium he said that the Soviet government cannot accept the Western proposal of a three year moratorium which would just pass away after its expiration.

Fourth, as to the number of control posts on Soviet territory, he rejected the Western recommendation of nineteen control posts. He reaffirmed the Soviet position that fifteen control posts was sufficient in accordance with the conclusions of the 1958 Conference of Experts.

Fifth, he said, the Soviet Union could not accept the phasing schedule proposed for installing posts that would put the Soviet Union under control from the very start of the control organizations operations, while large areas which were being used or might be used by the Western Powers for carrying out tests would remain outside such control.

In conclusion, he said that the Western powers were still retaining their old unacceptable positions on the questions of the inspection quota, criteria, staffing of inspection teams and observers for special aircraft flights.¹⁷³

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Other / the revolution...
of a three year revolution which would have been
the first government since the Russian Revolution
which, in 1917, in the revolution he said that

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United Kingdom regarding the progress of its investigation into the matter.

[illegible]

Western Bureau has already met with similar results in the past.

Western comments on the Soviet critique. On April 11th, the United States representative on commenting on the Soviet critique of the new Western proposals said that the Soviet Union had accepted only those parts of the Western proposals that agreed with Soviet positions.

In regards to financial contributions, he said, the Soviet Union was demanding absolute equality; whereas, it was demanding parity in all other aspects of the treaty.

As to the budget question he remarked that the right to veto the budget should only apply to the whole budget because

the Western powers want to see the budget gradually put together without any veto and then voted on by the Commission in one final decision. If at that point, one original party fails to concur, and if the control organization is left without operating funds, the problem will then be posed in clear form.¹⁷⁴

On April 26th at the 298th meeting, the United States representative rebutted the Soviet arguments about the scientific basis for their proposal that fifteen control posts be established on Soviet territory. He said that whether you use seismicity as well as area or take the simple geographical area approach by itself, "it still comes out to more than fifteen control posts that should be located on the territory of the Soviet Union." Also, he continued, it can be scientifically shown that the larger the number of control posts surrounding an event the

[illegible][illegible]

greater the systems ability to identify seismic events. Therefore, he asked, ". . . what possible difference can four more control posts make to the Soviet Union."¹⁷⁵

The Western Draft Treaty

On April 18, 1961, at the 292nd meeting, the United States representative introduced a complete draft treaty on the discontinuance of nuclear weapon tests on the behalf of the United States and the United Kingdom. This draft treaty incorporated all the proposals put forward by the Western Powers and was introduced to clarify the final positions of the Western delegations in treaty form.

The United States representative said in introducing the draft treaty:

The draft treaty which we now table is complete. It covers, we believe, every necessary element of an over-all agreement for the discontinuance of nuclear weapon tests. We strongly believe that its provisions call for an adequate control system and a system which does not impose undue burdens upon any party to the treaty.

The draft treaty which we present today is a treaty which the Governments of the United States and the United Kingdom are prepared to sign immediately to end tests underground above seismic scale of magnitude 4.75, in the sensible atmosphere, in the oceans and in outer space.

Its signature would, of course, be accompanied, as we have previously agreed, by unilateral declarations on the part of the three original parties undertaking a moratorium of an agreed duration on underground tests below the treaty threshold level of 4.75 and by agreement that seismic research programmes undertaken by any of the original parties subsequent to signature of the treaty would involve

greater the system ability to identify specific events.
Therefore, we need, in a way, to make the system more
flexible and more able to handle change.

The Western Draft Treaty

On April 12, 1961, at the time meeting, the main
draft treaty incorporated a complete draft treaty
on the discrimination of certain weapons tests on the
basis of the United States and the United Kingdom. This
draft treaty incorporated all the proposals put forward by
the Western Group and was intended to clarify the final
positions of the Western delegation in treaty talks.
The United States representative said he believed

the draft treaty

The draft treaty which we now table is complete.
It covers, we believe, every necessary element of
an anti-all agreement for the discrimination of
certain weapons tests. We strongly believe that the
provisions call for an adequate control system and
a system which does not impose undue burden upon
any party to the treaty.
The draft treaty which we present today is a
draft which the Government of the United States
and the United Kingdom are prepared to sign immediately
and to ratify without delay. It is a complete agreement
of principle and, in the words of the Secretary, in
the course of the talks.
The agreement would, of course, be completed
as we have previously agreed, by mutual decision
from the time of the final original parties
understanding a situation of an agreed position on
understanding that the treaty should be signed
of 1961 and the agreement that certain weapons tests
should be signed by way of the original parties
subsequent to agreement to the treaty would involve

application of agreed safeguards to such nuclear explosions as may be included in those research programmes. It is to be hoped that at the end of the seismic research programmes our then knowledge will permit us to lower the treaty threshold.

This draft treaty represents our best and most advanced ideas for an agreement which will achieve discontinuance of nuclear weapon tests under adequate international control.

The delegations of the United Kingdom and the United States will, of course, stand ready to explain their views fully and to give careful consideration to any ideas which the delegation of the USSR may have with respect to achievement of the objective of a sound treaty for the protection of the people of the world.

We are prepared to discuss this draft patiently and in detail. It represents our best thought but we are by no means inflexible about it. We are entirely open to reason. We shall listen carefully.

This draft treaty is presented by the Western delegations in a sincere effort to assist our negotiations to reach a successful conclusion.¹⁷⁶

The Inspection Problem

On April 19th at the 293rd meeting, the Soviet representative defended the Soviet on-site inspection quota of three per year proposal. He repeated the Soviet argument that the Western quota of twenty per year was unrealistic and unacceptable to the Soviet Union.

He refuted the argument of the United States that the number of inspections must be sufficiently high to be an effective deterrent. To support his argument, he said, the violators of the treaty would be one of the three original members, three great powers, and he did not believe that any of them would risk the danger of exposure

and the resulting condemnation by the rest of the world for doubtful advantages.

As to linking the number of inspections to a certain percentage of the unidentified events, he stated, "no percentage or numerical relationship can be scientifically justified in this regard, since any number, any percentage can be insisted on with the same degree of justification or non-justification."

In reference to the composition of inspection teams, he stated, that the Western insistence on staffing these teams with non-nationals proves that the West is trying to gain an advantageous position in the recruitment of staff for these important control units. He put forth the Soviet position on this particular issue as:

the Soviet Union merely proposes that specialists from the Soviet Union and specialists from the United States and the United Kingdom should take part in inspections on an equal basis. We want equal participation of both sides in control operations in all the components at all stages, in all countries. Only such an approach will ensure genuine objectivity and impartiality in control operations.

On the problem of the dispatching of inspection groups, he stated that the previous Soviet proposal prevents the vetoing or interference of the proposed administrative council. By this proposal, he said, inspections may be made at any place where, according to readings of instruments at control posts, a suspected event has

and the resulting maintenance of the level of the water

the current is maintained.

As to limiting the number of immigrants to a certain

percentage of the total population, we believe, the

percentage of the total population can be scientifically

justified in this regard, since any number, any percentage

can be justified on the basis of the same system of justification as

non-justification.

In reference to the question of immigration, we

believe, that the Western countries are suffering from

scarcity of labor, and that the East is trying to

bring an overpopulation condition in the countries of Asia

the same is the case with Africa, the East and the

Western countries are all suffering from the

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occurred, at the request of the sides within the limits of the annual quota, and that inspection groups within the specified quota shall be dispatched by the commission without delay, and shall not require agreement between the parties of the treaty. Further, he added, the Soviet Union had previously agreed that inspection groups could be chosen from inspectors maintained at headquarters on a permanent basis.¹⁷⁷

Western comments. On April 24th at the 1960 meeting, the United States representative commented on the Soviet position put forth on the problem of inspections. He first commented, "there have been at least as far as the world at large knows, no breaches of the voluntary moratorium on testing since late 1958." He added, that rather than proving that no signatory would violate its solemn pledge under the treaty, it demonstrates that without controls no one can know the true situation about violations. He continued, that the number of on-site inspections that the Soviet Union is proposing has nothing to do with deterring potential violators, "it is a sort of token or good-humor gesture that has nothing to do with the objective requirements of strict scientific international control."

On the question of the Soviet fear of espionage, he commented, "the United States is just as opposed to having

espionage conducted on its territories as is the USSR. Therefore, the scientific measures the United States proposes must have no significance from an espionage point of view." The twenty inspections that the West proposes, he continued, is based strictly on an interest in effective control, as is the Western proposal that nationals be excluded from inspection teams. He added, "he did not conceive how intelligence could be gathered when the host country could have an unlimited number of observers along with the inspection group."

He further remarked that he was still confused about the procedures for launching an on-site inspection under the Soviet proposal. He declared that

what is unclear is, first, whether the commission could overrule the party and decide that the seismic criteria had not, in fact, been met in the given case and that therefore there would be no right of inspection; and second, whether a majority on the commission would, by a veto-free vote have to approve the request for an inspection before it could begin.

The United States position on this issue, he said, is that it would be opposed to any intervention by the commission on whether one original party might exercise its right, within the annual quota, to have an on-site inspection conducted on the territory of another original party. He continued, this would be an automatic affair once it had been determined that the seismic criteria had been met. As to the subject of criteria, he said, the purpose of

criteria is to codify scientific standards agreed to by all three original parties so that whenever seismic data recorded by the control system show that these standards have been met, a seismic event automatically becomes eligible for inspection.¹⁷⁸

United States introduces new proposal on inspections.

At the 310th meeting on May 26th, the United States representative proposed in an effort to reach an acceptable figure on the number of on-site inspections that an alternate method which the United States previously proposed could be used to solve the Soviet argument that the Western figures were inflated and not based on scientific fact. This proposal, he said, was made at the 276th meeting that there would be an unlimited number of inspections up to 30 per cent of the unidentified events, or 30 per cent of the located seismic events. This proposal, he said, still stands and is an acceptable alternate to the current Western proposal of twenty inspections per year.¹⁷⁹

On May 29th at the 311th meeting, the United States representative continued the discussion about the on-site inspection quota. He submitted another United States proposal in an effort to work out some solution to the problem. He proposed that the "... quota be worked out on the basis of actual seismic developments, namely, of recorded seismic events on the territory of each original

critical is in bodily activities which are spent in the
all these activities which are not directly related to the
connected to the control system, such as the control system
very few are... a certain form of activity is
eligible for recognition.¹⁷

Index of activities and movements in the laboratory
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party." With this as a basis he proposed a sliding scale of inspections with a maximum of twenty per year regardless of the number of unidentified events and a base of twelve inspections per year. The number of inspections between these two figures, he said, would be determined by the actual number of unidentified events between sixty and one hundred, for each five above sixty another inspection could be held up to a maximum of twenty if one hundred were reached.

In concluding his remarks about this new proposal, he said,

there is a great advantage to the Soviet Union in this proposal because if their scientists are right about the number of unidentified events occurring in the Soviet Union then the quota of inspections for the Soviet Union would be lower. Further, if the Soviet estimate of the number of events is lower in the Soviet Union and higher in the United States then she would have more inspections in the United States than she would receive in the Soviet Union.¹⁸⁰

Soviet comments. On May 31st at the 113th meeting, the Soviet representative rejected this new alternate proposal of the "sliding scale" of the West. He said it was "unrealistic and unpractical for both political and technical reasons." He repeated the former Soviet argument that the solution of the number of on-site inspections must be solved strictly on the basis of a political compromise.¹⁸¹

Disarmament Link

On June 12, 1961, at the 317th meeting, the Soviet representative introduced into the conference records a memorandum from the Soviet Government to President Kennedy of the United States which was handed to him by Premier Khrushchev in Vienna at their Summit Conference.

The memorandum outlined a change in Soviet position in relation to the Conference on Discontinuance of Nuclear Weapon Tests. It supported their proposal for an "administrative council" and reaffirmed their reasons for this proposal. Additionally, it discussed the outstanding issues that were keeping the conference from reaching agreement, the quota, staffing, on-site inspections. It then suggested that it might not be better to ". . . start with the main, the cardinal question, that is to say, the question of general and complete disarmament?" This the note continued would solve all the problems that are plaguing the conference at Geneva, because the Soviet Union had pledged that it would accept unconditionally any proposal by the Western Powers on control, once the Western Powers accept the proposal of general and complete disarmament.

It went on to say that

. . . at present, when the armaments race is going on in the world and when opposing military blocs exist, we are compelled to maintain our armed forces

in the interests of the security of our country and that of our allies. So long as States maintain armed forces, no form of control can be disassociated from intelligence work.

The statement concluded by saying,

the discontinuance of nuclear weapon tests does not mean that the manufacture and stockpiling of such weapons will cease; and the danger of war is not diminished. In these circumstances every State is entitled to suspect that the intention is to use control as a screen for setting up intelligence agencies.¹⁸²

New Western Proposals

Even with the seemingly insurmountable obstacles which the Soviet Union had placed in the way of reaching agreement, the Western Powers introduced further proposals in an attempt to get the Conference back on the right path.

On August 28th at the 337th meeting, the United States representative introduced two new proposals.

The first in reference to procedures to be followed at the expiration of the moratorium proposed that

about six months before the expiration of the three year moratorium, with respect to tests below the treaty threshold of 4.75, a panel of eminent scientists representing each of the eleven nations which will then be members of the control commission of the treaty organization should be convened.

This scientific panel would be charged with the task of preparing a report to the eleven-nation control commission, by at least a majority vote of the scientists unit, on the following matters:

(1) recommended improvements in the treaty control system in the light of the findings of the

in the interests of the security of our country and
that of our allies. It is not an isolated
event, however, the kind of control can be discussed
related from intelligence work.

The statement submitted by myself

The dissemination of material which would be
destructive to the national and international
security will be a serious and the danger of war is not
imminent. The above statement was made in
order to suggest that the situation is in our
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General Statement

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which the United States has placed in the way of reaching

agreement, the serious and serious of intelligence

is an attempt to get the situation back on the right

path.

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representative will discuss the situation.

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proposed research programme in which we have asked the Soviet Union to participate;

(2) scientific estimate of the capabilities of the control system in the light of such improvements; and

(3) recommendations as to whether or not the treaty threshold of seismic scale of magnitude 4.75 should be lowered, and if so, to what point, and indeed whether the threshold can be eliminated entirely by scientific improvements in the treaty control system.

When that has been done, the control commission itself, composed of four Western Powers, four Soviet Powers, and three neutral or uncommitted Powers, will consider the report and agree, by majority vote, on such draft amendments to the treaty to eliminate or to reduce the threshold as may be required by such of the recommendations of the scientists as the commission may approve. All such treaty amendments would be submitted to the next annual conference of the parties or to a special conference if the annual conference were not scheduled until after the expiration of the moratorium.

In concluding his statement on this proposal, the United States representative remarked, that the Soviet objection to the Western proposals on the moratorium was that it would be "automatically" left to expire. Therefore, he contended, the above proposal would ensure that the moratorium would not be allowed to expire automatically and guarantees the most "careful deliberation and review." This proposal, he concluded, "is a means to make sure that when the treaty obligation is extended to cover underground tests of lower yields adequate control measures shall not be left to chance."

The second proposal that the United States representative introduced was put forth in answer to a Soviet

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the relationships between these factors. Once the causes of the problem have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Once a plan of action has been developed, the final step is to implement the plan. This involves carrying out the steps that have been identified in the plan and monitoring the progress of the implementation.

[illegible][illegible]

United States Department of Justice

© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 395–401

1998-1999

Source: U.S. Census Bureau, *U.S. Census of Population, 1980*, vol. 1, PC80-1-A, table 100.

(Faint mirrored bleed-through from reverse side)

10. The following information is available for the year ended 31 December 2014:

statement calling for a complete comprehensive treaty over all nuclear tests. He declared that if that was the present position of the Soviet Union, then the United States was ready to meet that position. The United States, he continued, was willing to contemplate an initial treaty threshold that would be lower than the proposed one of the seismic magnitude of 4.75; and further, "we are even willing to consider arrangements, if this, with your cooperation, should prove scientifically possible, which would amount to virtually no treaty threshold at all." He explained this as the United States willingness

to negotiate here and now for the immediate lowering or even removing of the treaty threshold of 4.75, provided that the Soviet Union is ready to explore with us, and open-mindedly consider those improvements or adjustments in the control system which could so increase its scientific capabilities from the outset as to warrant the lowering or removing of the threshold.

He then outlined what some of these improvements and/or adjustments might be.

The relocation of some of the control posts in both of our countries and other countries from relatively aseismic to highly seismic areas, if that can be done without injury to the whole control system; the introduction into United States, United Kingdom and USSR territories of a number of unmanned seismic recording stations, perhaps in conjunction with some of the foregoing changes regarding the relocation or regrouping of control posts; modification of the total number of control posts in the United States, the Soviet Union and, possibly elsewhere; an adjustment of the fixed annual number of inspections in the quota; and the immediate adoption from the outset of certain scientific improvements in the treaty control system.

In reference to the two proposals, he concluded

on the one hand we have the Western proposal for reducing or eliminating the threshold in the treaty at the end of the three year moratorium and on the other hand, we have put forward an alternative proposal for reducing or eliminating the threshold in the treaty immediately. [Further he added,] we shall continue to work for sound arrangements which will not give the illusion of control without any substance. Aside from that, however, there are no limits to our willingness to negotiate on the scientific control system.¹⁸³

Soviet Comments. The initial Soviet reaction to the proposals was to ignore them and to repeat the argument that all the Western proposals were designed to set up a system of control without disarmament, which in effect would be nothing more than an intelligence network. In conclusion he said,

the Soviet Union will be prepared, and we have already told you so repeatedly, to sign a treaty on general and complete disarmament and to agree to any control over disarmament and consequently, over the discontinuance of nuclear weapon tests, but not to any control while the arms race and intensified military preparations continue; that is, the Soviet Union will not agree to control separated from disarmament.¹⁸⁴

Additional Western proposals. On August 30th at the 338th meeting, the United States representative continued his discussion of the issues separating the two sides in an attempt to find some path to renew true negotiations; he said the main issue separating the two sides continued to be the Soviet stand on the "troika" and he reaffirmed that the West could never accept that proposal. However,

he continued, in order to settle the fears of the Soviet Union that a single administrator might prove partial to one side, the Western Powers were ready to introduce a draft amendment to the article on the functions of the control commission which would authorize the Control Commission to remove an Administrator or Deputy Administrator for failure to comply with provisions of the treaty or for any other reason the Commission decides that it no longer has confidence in him. Such a decision will require the concurring votes of seven of the members of the Commission.

Also in an attempt to settle another outstanding issue, he proposed that on-site inspection teams be composed on one half of either side of the original parties to the treaty, depending on the country inspected, and the other half of nationals of countries not associated with any of the original parties.¹⁸⁵

Soviet comments. The only Soviet comment that the Soviet representative made on these new proposals was to refer to the same argument that these discussions would not be necessary if the West would accept the Soviet proposals on general and complete disarmament.¹⁸⁶

Soviet Resumption of Nuclear Weapon Testing

The 339th meeting on September 4, 1961, opened following the announcement on August 30th that the Soviet Union had resumed nuclear weapons tests thus breaking the

any of the original members.

NOT BE RELEASED IN THE NEXT FIVE YEARS. THE SUBJECT CAN
BE RELEASED IN THE NEXT FIVE YEARS.

On the morning of December 1, 1961, the following information was received from the Bureau of the Census:

moratorium which had existed since 1958. The announcement on August 30th and the subsequent confirmation by the Western Powers that the Soviet Union had exploded a nuclear device in the atmosphere did not create the proper atmosphere for worthwhile negotiations.

The United States representative introduced two Western documents. One a White House statement made on August 30, deploring the decision of the Soviet Union to resume testing. The other document was a joint proposal by President Kennedy and Prime Minister Macmillan to Premier Khrushchev dated September 3, requesting that the three Governments agree, effective immediately, not to conduct tests which take place in the atmosphere and produce radioactive fall-out.¹⁸⁷

The Soviet representative read into the record the statement of the Soviet Union on its decision to resume nuclear weapon testing. This statement put forth the Soviet view that it had to renew testing for military security reasons due to the current international situation. Further, they contended that France--one of the United States and the United Kingdom NATO allies--had been conducting nuclear tests during the moratorium and hinted that the Western Powers were using this means to test their new weapons while the Soviet Union was refraining from nuclear testing, thus putting the Soviet Union in an

unequal position. The statement continued that plans have been completed for conducting a series of nuclear bomb tests of increased power, of twenty, thirty, fifty, and a hundred megatons of TNT and the powerful missiles to deliver these nuclear bombs to any point in the world where an attack on the Soviet Union could be launched from. The statement concluded by reaffirming the Soviet Union's desire and readiness to sign an agreement on general and complete disarmament which would also put an end to thermo-nuclear tests.¹⁸⁸

Recess of the Conference

The final meeting of this conference during this period was held on September 9, 1961.

The Soviet representative read into the record the statement of Premier Khrushchev rejecting the joint proposal of the United States and the United Kingdom made on September 3. He rejected their appeal, the statement said, because of several reasons. First, it did not take into account the current state of international affairs. Second, their statement separates the question of suspension of nuclear tests from the general question of disarmament. Third, the proposal would authorize underground tests for which the United States is prepared to increase its military knowledge plus it does not mention what their ally France will do. The statement repeated Soviet

arguments that the only way to solve the current problems would be to sign a treaty on general and complete disarmament as proposed by the Soviet Union.¹⁸⁹

The United States representative in commenting on the Soviet statement said that it was nothing more than a crude attempt at "atomic blackmail" in total disregard of the needs and welfare of mankind. In regards to the reason that the Soviet Union has consistently been trying to scuttle the nuclear weapon test ban talks, he said

that unanswered question of why the Soviet Union became more and more unyielding in its refusal to discuss the Western proposals, to submit proposals of its own, or even to negotiate at all, was finally answered last week.¹⁹⁰

Summary

When the Conference reconvened on March 21, 1961, there was high hopes that an agreement might be quickly reached. The initial Soviet proposal of an "administrative council" quickly ended this high optimism. The Western compromise proposals, also submitted at the March 21st meeting, were indeed an attempt to solve some of the outstanding issues. However, as the meetings progressed it became apparent that an impasse was imminent and the conference settled down into a series of arguments and counter-arguments to positions of principle from which neither would move. The Western Powers had made their move on March 21st, but the Soviet Union failed to move

any toward the Western position and a deadlock ensued. Although, there was little hope for a breakthrough in the deadlock as some of the statements of both sides indicated, the West continued to try to find acceptable positions on some of the issues. For example, the Western proposal for the "sliding-scale" of inspections was one. The primary stumbling block remained the "troika" issue about which neither side would change their position. An additional roadblock to agreement was introduced with the Soviet statement that it could not agree to control without disarmament and because the conclusion of a test ban treaty would not be a reduction in armaments it recommended that the talks be merged into general and complete disarmament discussions which could settle many of the outstanding issues before the conference in Geneva. This proposal was rejected by the Western powers, and they reminded the Soviet Union that it was they who early in the negotiations kept insisting that the nuclear weapons test ban talks be kept separate from general disarmament agreements and to which the Western Powers made a concession in January 1959.

The coupe de grace for this period was given when the Soviet Union resumed nuclear testing and refused to accept a Western proposal for an immediate ban on atmospheric testing.

Thus, when this period ended, to carry the question

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to the General Assembly of the United Nations, the prospects for reaching agreement appeared to be very dim indeed.

XI. THE TENTH PERIOD NOVEMBER 28, 1961 -
JANUARY 29, 1962

Introduction

The tenth and final period of the Conference began on November 28, 1961, following an exchange of notes between the three nuclear powers. Thirteen meetings were held until the Conference ended in another deadlock when agreement could not even be reached on the communique to be issued at the close of the 353rd meeting on January 29, 1962.

The main topic discussed was the new Soviet draft treaty and the Western rejection of it.

New Soviet Proposal

At the 341st meeting on November 28, 1961, which marked the beginning of this period, the Soviet representative introduced a new Soviet proposal. In introducing this new proposal, he argued that a new approach was needed to the question of the discontinuance of nuclear weapon tests, "one which would eliminate the difficulties and obstacles which have hindered agreement in the past." He then proposed that the Conference

conclude immediately an appropriate agreement on the discontinuance of nuclear tests in the atmosphere, under water and in outer space, that is, in these environments where the implementation of control is not fraught with any serious technical difficulties."

To verify these obligations, he declared, existing national technical system were sufficiently reliable. As to underground nuclear tests, he contended that

the Soviet Government is of the opinion that States should undertake not to conduct such tests until agreement is reached on a system of control over underground explosions as a constituent part of an international system of control over the implementation of a programme of general and complete disarmament.

He also went on to say that the time had arrived to include France in the negotiations.

The Soviet representative then introduced a draft agreement which incorporated the Soviet position. This draft agreement read:

The Governments of the Union of Soviet Socialist Republic, the United States of America, the United Kingdom of Great Britain and Northern Ireland and the French Republic,

Proclaiming as their principal aim the speediest possible achievement of an agreement on general and complete disarmament which would abolish for all time the threat of an outbreak of war, put an end to the armaments race and eliminate the incentive to the production and testing of all kinds of weapons, including nuclear and thermonuclear weapons,

Believing that the renunciation by States of the testing of nuclear and thermonuclear weapons would facilitate the achievement of agreement on general and complete disarmament,

Have for these purposes agreed as follows:

Article 1

The States Parties to this Agreement solemnly

undertake not to conduct tests of any kind of nuclear or thermonuclear weapons in the atmosphere, in outer space or under water.

Article 2

For the purpose of exercising mutual supervision of compliance with the undertaking contained in Article 1 of this Agreement, the States Parties to this Agreement shall use their national systems of detecting nuclear and thermonuclear explosions.

Article 3

The States Parties to this Agreement undertake not to conduct any underground tests of nuclear weapons until they have agreed together on a system of control over such tests as a constituent part of an international system of control over compliance with an agreement on general and complete disarmament.

Article 4

This Agreement shall enter into force immediately upon its signature by the Governments of the Union of Soviet Socialist Republics, the United States of America, the United Kingdom of Great Britain and Northern Ireland and the French Republic, and shall be open for adherence to it by all States.¹⁹¹

Western Reply to the New Soviet Proposal

The United States representative initial comments on the new Soviet agreement and position were that it was a propaganda proposal and appears to be merely a proposal for a completely uncontrolled ban on nuclear tests. In essence, he said, it calls upon

the United States, the United Kingdom, France and the Soviet Union to obligate themselves to conduct no nuclear tests in the atmosphere, in outer space, underwater or underground, but there is to be no international control machinery whatsoever to monitor this prohibition in the first three mentioned environments, where total reliance will be placed upon national control capabilities, with apparently no international supervision and without even the means of finding out about what the national stations discover or disseminating the findings of the national system.

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As to underground tests, he continued,

verification of the ban on underground tests, even the Soviet Union still appears to acknowledge that international controls are essential here, but . . . the Soviet proposal declares that no such control machinery can be set up except in the context of machinery established to monitor a treaty on general and complete disarmament.

He declared that

. . . the United States will undertake no paper commitments or meaningless gestures which can reward only the one Power, the Soviet Union, which has done its cynical utmost heretofore to thwart a sound internationally controlled nuclear test ban treaty.

In regards to the inclusion of France in the negotiations, he declared that even though France became a nuclear power on its own since the negotiations began and was not a party to the original conference, the United States was prepared to accept any nuclear power to join in the deliberations, although the United States feels that additional powers would prolong the discussions.

He stated in conclusion,

it seems to us that such an approach as is outlined in the Soviet proposals which we have heard here today can only result in much delay in signing a sound and effective internationally controlled treaty, and in consequent failure to end nuclear talks.¹⁹²

Soviet Comments on the Western Comments on their New Proposal

The Soviet representative stated in reply to the Western comments on the new proposal that

we cannot but express regret that the United Kingdom

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the relationships between these factors. Once the causes of the problem have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Once a plan of action has been developed, the final step is to implement the plan. This involves carrying out the steps that have been identified in the plan and monitoring the progress of the implementation.

1. The following information is being furnished to you for your information and is not to be used for any other purpose. It is the property of the FBI and is loaned to you. It is to be returned to the FBI when requested. It is not to be distributed outside your agency.

and the United States delegations have been in such a hurry to utterance already to negative comments, I would even say attacks, without having familiarized themselves with the Soviet Government's statement or with the draft agreement, without having studied both these documents carefully and without having examined attentively the argumentation which we have expounded, and that they have declared offhand that this new proposal by the Soviet Union, this new initiative of ours, is virtually unacceptable.¹⁹³

At the 344th meeting on December 5th, the Soviet representative introduced into the records of the Conference a Soviet Government statement which had been released on December 4th. It repeated the argument that the Soviet proposal was put forth as the only solution to the deadlock over the suspension of nuclear weapons tests. Further, it expressed regret that the Western Powers have not taken up this proposal but, instead, statements have been put forth that the Western Powers intend to continue testing in the future. The statement concluded by saying,

The Soviet Government declares with all firmness that if the Western Powers continue nuclear weapon tests, including tests under ground, the Soviet Union will be compelled, in order to safeguard its security, to conduct such nuclear weapon tests as it deems necessary for the strengthening of its defensive capacity.¹⁹⁴

Western Formal Rejection of the New Soviet Agreement

On January 16, 1962, at the 350th meeting when the Conference reconvened after a holiday recess from December 21, 1961, the United States and the United Kingdom delivered statements from their governments rejecting the

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new Soviet proposal on a nuclear weapons test ban. In his remarks, the United States representative stated that the new Soviet proposal rejects the principle of international controls.

It asks each participating State to monitor its own performance in fulfilling the treaty, even though this would be both technically and politically inadequate. It seeks to annul and liquidate all the progress achieved in several years of negotiations to work out mutually acceptable treaty provisions for a control system. It requires the Western Powers to rely solely on a Soviet pledge not to test again at the very moment when a grievous Soviet violation of its last pledge to adhere to a moratorium on nuclear weapon tests is still fresh in our memories it is quite apparent why the United States Government must refuse to have anything at all to do with this retrogressive Soviet plan.

He concluded his statement by saying,

if the Soviet representative still refuses to negotiate on any basis other than the Soviet proposals and principles which the Government of the United States, after thorough and deliberate consideration, has found to be unacceptable, . . . then we see no alternative to proceed along the lines of a second course of action."

The second course of action he proposed was that the Conference adjourn while the question of an appropriately controlled test ban is considered, in relation to general disarmament and the corresponding international controls, by the Eighteen-Nation Disarmament Committee.¹⁹⁵

The United Kingdom representative associated himself with the remarks made by the United States representative. He added further that the United Kingdom cannot agree that the Soviet proposals, which were submitted at the November

one other person, as a matter of fact, who was
with me at the time I was taken away from the
house. I am not sure if he was or not.

[illegible]

controlled test case is presented in Table 10.

28th meeting,

provide a satisfactory basis for negotiation of a treaty providing for the end of all nuclear testing in all environments with effective international control, because the Soviet proposal does not make any provision for an international supervision whatsoever of the observance of such a treaty.

He ended his statement by saying that if the Soviet Government maintains the same rigid position since they offered their proposal on November 28th on a "take it or leave it" basis then the United Kingdom would support the second proposal put forth by the United States, that the Conference adjourn while the question is discussed at the forthcoming Eighteen-Nation Disarmament Committee discussions.¹⁹⁶

Soviet Reply to Western Rejection of the New Proposal

The Soviet representative attacked the Western rejection of the Soviet proposal of November 28th and repeated his former arguments in support of the Soviet position.

At the 352nd meeting on January 26th, he introduced a Soviet Government statement in reference to the proposal of the United States that the Conference adjourn while the Eighteen-Nation Disarmament Committee discusses the question. The statement declared that the Western proposal to end the negotiations came at just the time when there was a proposal before the Conference that could put an end to nuclear testing. It further stated that the Soviet

The meeting, however, was not held.

It is a well-known fact that the Government of the United States has been very generous in its treatment of the Japanese people. It has given them the right to work in the United States, and it has given them the right to own property in the United States. It has given them the right to travel in the United States, and it has given them the right to live in the United States. It has given them the right to be treated as human beings, and it has given them the right to be treated as citizens.

The United States Government is very generous in its treatment of the Japanese people. It has given them the right to work in the United States, and it has given them the right to own property in the United States. It has given them the right to travel in the United States, and it has given them the right to live in the United States. It has given them the right to be treated as human beings, and it has given them the right to be treated as citizens. It has given them the right to be treated as equals, and it has given them the right to be treated as free men.

THE UNITED STATES GOVERNMENT AND THE JAPANESE PEOPLE

The United States Government is very generous in its treatment of the Japanese people. It has given them the right to work in the United States, and it has given them the right to own property in the United States. It has given them the right to travel in the United States, and it has given them the right to live in the United States. It has given them the right to be treated as human beings, and it has given them the right to be treated as citizens. It has given them the right to be treated as equals, and it has given them the right to be treated as free men.

Government thought worthwhile negotiations could be held and wished to continue the Conference.¹⁹⁷

The Conference Adjourns

The discussions continued until the 353rd meeting on January 29, 1962, without any apparent change in positions. Therefore, the United States representative proposed at the 353rd meeting that the Conference recess immediately until a common basis for negotiations can be re-established either at the forthcoming meetings of the Eighteen-Nation Disarmament Committee Conference, through diplomatic channels, or through informal contacts among delegations at Geneva.

The representative from the United Kingdom supported the proposal.

The Soviet representative refused to accept the proposal and refused to agree to a recess of the Conference. He was willing to accept a declaration that the Conference had ended on the request of the United States and the United Kingdom. To this proposal the Western representatives refused to agree.

The meeting was finally declared adjourned by the Chairman and left to the next chairman to fix the date of the next meeting in agreement with the other delegations.¹⁹⁸

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 and stated in relative the Commission.

The Commission's findings

The Commission concluded that the Commission
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XII. SUMMARY

On January 29, 1962, after three hundred and fifty-three meetings that had their beginning on October 31, 1958, the Conference on the Discontinuance of Nuclear Weapon Tests came to a close without reaching agreement. Although not officially closed, no further meetings of the Conference have been called.

The Conference had come about a complete circle; it began with a brief general Soviet proposal to stop all nuclear weapon tests with only a brief token statement about control, and it ended with a Soviet proposal for agreement on a test ban with only national systems for control.

During the course of the negotiations up to about the middle of 1960, a great amount of progress had been made in an attempt to reach agreement on a test ban with effective controls. This can be seen by the number of adopted articles for an agreement in Appendix A. The articles of the treaty that were needed to complete the agreement were small, but the problems involved in these few articles were big. These articles brought forth basic principles on control from which neither side was willing to venture very far.

In the end, it appears that the Soviet Union reached a decision sometime in 1960 that the West would

not move toward their position far enough to bring about agreement and that the Soviet position was the maximum acceptable amount of penetration of the Soviet Union she would accept.

After the summer of 1960, the negotiations took a downhill turn and even with the many proposals put forth by the Western Powers in the early part of 1961, the Soviet Union's position remained firm.

The introduction of the "troika" proposal and the link to general and complete disarmament proposal by the Soviet Union presented further obstacles to reaching agreement and virtually doomed the negotiations. The resumption of nuclear testing by the Soviet Union put the finishing touches on the negotiations.

The November 28, 1961, proposal of the Soviet Union set forth the new Soviet position whereby she still desired a nuclear test ban but would not accept any controls in association with it.

This new Soviet position ran directly contrary to the Western position that any agreement on disarmament must contain effective international control provisions.

Thus, the negotiations had reached another impasse, and the Western Powers decided that until a more favorable negotiating climate could be developed, the negotiations would not have any worthwhile advantage in continuing them.

Therefore, on January 29, 1962, after 353 meetings, the Conference on the Discontinuance of Nuclear Weapon Tests became history.

the following is a summary of the main points of the paper, which is available at <http://www.jpea.org.uk>.

The paper is divided into three main sections: (1) Introduction, (2) Theoretical Framework, and (3) Conclusion.

The first section, Introduction, outlines the purpose of the paper and the research questions that it seeks to address.

The second section, Theoretical Framework, discusses the theoretical underpinnings of the research and the concepts that are central to the study.

The third section, Conclusion, summarizes the findings of the research and discusses the implications for practice and policy.

The paper is written in a clear and concise style, and it is well organized and easy to read.

The research is based on a solid theoretical foundation, and the findings are well supported by the data.

The paper is a valuable contribution to the field of education, and it is well worth reading for anyone interested in the topic.

The paper is a well-written and informative piece of research, and it is well worth reading for anyone interested in the topic.

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CHAPTER III - FOOTNOTES

¹"Statement by President Eisenhower: Experts' Report on Detection of Nuclear Tests, August 22, 1958" and "Statement by the British Government: Experts' Report on Detection of Nuclear Tests, August 22, 1958," Documents on Disarmament 1945-1959, Vol. II 1957-1959 (Washington: Government Printing Office, 1960), pp. 1111-1113.

²"Note From the Soviet Foreign Ministry to the American Embassy: Negotiations on the Suspension of Nuclear Weapons Tests, August 30, 1958," Documents on Disarmament 1945-1959, op. cit., p. 1120.

³"Note From the American Embassy to the Soviet Foreign Ministry: Negotiations on the Suspension of Nuclear Weapons Tests, September 10, 1958," Documents on Disarmament 1945-1959, op. cit., pp. 1126-1127.

⁴"Statement by President Eisenhower Regarding Recent Soviet Nuclear Tests, November 7, 1958," Documents on Disarmament 1945-1959, op. cit., p. 1221.

⁵Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of First Meeting, GEN/DNT/PV-1, October 31, 1958, pp. 25-27.

⁶Ibid., pp. 11-21, 28-31.

⁷Ibid., Verbatim Transcript of Fifteenth Meeting, GEN/DNT/PV-15, November 29, 1958, pp. 15.

⁸Ibid., Verbatim Transcript of Eighth Meeting, GEN/DNT/PV-8, November 13, 1958, pp. 5-8.

⁹Ibid., Verbatim Transcript of Fifth Meeting, GEN/DNT/PV-5, November 6, 1958, pp. 4-5; and Verbatim Transcript of Thirteenth Meeting, November 25, 1958, pp. 3-5.

¹⁰Ibid., Verbatim Transcript of Firteenth Meeting, op. cit., pp. 3-12.

¹¹Ibid., Verbatim Transcript of Seventeenth Meeting, GEN/DNT/PV-17, December 2, 1958, pp. 5-7.

¹²Ibid., Verbatim Transcript of Twenty-first Meeting, GEN/DNT/PV-21, December 8, 1958, pp. 20-38.

¹³ Ibid., Verbatim Transcript of Twenty-Third Meeting, GEN/DNT/PV-23, December 11, 1958, pp. 4-6.

¹⁴ Ibid., Verbatim Transcript of Twenty-Fourth Meeting, GEN/DNT/PV-24, December 12, 1958, pp. 3-9.

¹⁵ See Appendix A for full text.

¹⁶ Ibid.

¹⁷ Ibid.

¹⁸ Ibid.

¹⁹ Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Twenty-Ninth Meeting, GEN/DNT/PV-29, January 5, 1959, pp. 10.

²⁰ Ibid., pp. 11-14.

²¹ Ibid., Verbatim Transcript of Thirty-First Meeting, GEN/DNT/PV-31, January 7, 1959, pp. 22-29.

²² Ibid., Verbatim Transcript of Forty-First Meeting, GEN/DNT/PV-41, January 23, 1959, pp. 3-5.

²³ Ibid., Verbatim Transcript of Thirty-seventh Meeting, GEN/DNT/PV-37, January 19, 1959, pp. 10.

²⁴ Ibid., Verbatim Transcript of Forty-Fourth Meeting, GEN/DNT/PV-44, January 28, 1959, p. 3.

²⁵ Ibid., Verbatim Transcript of Forty-Fourth Meeting, op. cit., pp. 3-7.

²⁶ Ibid., pp. 9-17.

²⁷ Ibid., Verbatim Transcript of Forty-fifth Meeting, GEN/DNT/PV-45, January 29, 1959, pp. 19-21.

²⁸ Ibid., Verbatim Transcript of Forty-eighth Meeting, GEN/DNT/PV-48, February 3, 1959, p. 11.

²⁹ Ibid., Verbatim Transcript of Thirty-eighth Meeting, GEN/DNT/PV-38, January 20, 1959, pp. 3-8.

³⁰ Ibid., Verbatim Transcript of Forty-second Meeting, GEN/DNT/PV-42, January 26, 1959, pp. 3-4, 20-31.

1. General Introduction to the Study of the History of the United States
2. The Discovery and Settlement of the United States
3. The American Revolution
4. The American Republic
5. The American Civil War
6. The American Reconstruction
7. The American Empire
8. The American People
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³¹Ibid., Verbatim Transcript of Thirty-eighth Meeting, GEN/DNT/PV-38, January 20, 1959, pp. 12-13.

³²Ibid., Verbatim Transcript of Forty-second Meeting, op. cit., pp. 12-17.

³³Ibid., Verbatim Transcript of Forty-seventh Meeting, GEN/DNT/PV-47, February 2, 1959, pp. 3-4.

³⁴Ibid., Verbatim Transcript of Forty-sixth Meeting, GEN/DNT/PV-46, January 30, 1959, p. 30.

³⁵Ibid., Verbatim Transcript of Sixty-eighth Meeting, GEN/DNT/PV-68, March 5, 1959, p. 6.

³⁶Ibid., pp. 10-11.

³⁷Ibid., Verbatim Transcript of Forty-sixth Meeting, op. cit., p. 32.

³⁸Ibid., Verbatim Transcript of Forty-seventh Meeting, op. cit., p. 8.

³⁹Ibid., p. 19.

⁴⁰Ibid., Verbatim Transcript of Forty-ninth Meeting, GEN/DNT/PV-49, February 5, 1959, pp. 7-12.

⁴¹Ibid., p. 6.

⁴²Ibid., Verbatim Transcript of Sixty-fifth Meeting, GEN/DNT/PV-65, March 2, 1959, pp. 16-17.

⁴³Ibid., Verbatim Transcript of Sixty-seventh Meeting, GEN/DNT/PV-67, March 4, 1959, pp. 11-16.

⁴⁴Ibid., Verbatim Transcript of Forty-sixth Meeting, op. cit., pp. 8-10.

⁴⁵Ibid., p. 13.

⁴⁶Ibid., Verbatim Transcript of Sixty-sixth Meeting, GEN/DNT/PV-60, February 23, 1959, pp. 28-34.

⁴⁷Ibid., Verbatim Transcript of Fifty-second Meeting, GEN/DNT/PV-52, February 11, 1959, p. 20.

⁴⁸Ibid., Verbatim Transcript of Sixty-fifth Meeting, op. cit., pp. 3-5.

12. Journal of the American Medical Association, 1917, 19, 11-12.
13. Journal of the American Medical Association, 1917, 19, 11-12.
14. Journal of the American Medical Association, 1917, 19, 11-12.
15. Journal of the American Medical Association, 1917, 19, 11-12.
16. Journal of the American Medical Association, 1917, 19, 11-12.
17. Journal of the American Medical Association, 1917, 19, 11-12.
18. Journal of the American Medical Association, 1917, 19, 11-12.
19. Journal of the American Medical Association, 1917, 19, 11-12.
20. Journal of the American Medical Association, 1917, 19, 11-12.
21. Journal of the American Medical Association, 1917, 19, 11-12.
22. Journal of the American Medical Association, 1917, 19, 11-12.
23. Journal of the American Medical Association, 1917, 19, 11-12.
24. Journal of the American Medical Association, 1917, 19, 11-12.
25. Journal of the American Medical Association, 1917, 19, 11-12.
26. Journal of the American Medical Association, 1917, 19, 11-12.
27. Journal of the American Medical Association, 1917, 19, 11-12.
28. Journal of the American Medical Association, 1917, 19, 11-12.
29. Journal of the American Medical Association, 1917, 19, 11-12.
30. Journal of the American Medical Association, 1917, 19, 11-12.

⁴⁹Ibid., Verbatim Transcript of Sixty-seventh Meeting, op. cit., p. 15.

⁵⁰For full text see Appendix A.

⁵¹Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Seventy-third Meeting, GEN/DNT/PV-73, April 13, 1959, pp. 3-6.

⁵²Ibid., pp. 15-16.

⁵³Ibid., Verbatim Transcript of Eighty-third Meeting, GEN/DNT/PV-83, April 27, 1959, pp. 3-5.

⁵⁴Ibid., p. 10.

⁵⁵Ibid., p. 15.

⁵⁶Ibid., Verbatim Transcript of Eighty-fourth Meeting, GEN/DNT/PV-84, April 28, 1959, pp. 10-11.

⁵⁷Ibid., Verbatim Transcript of Eighty-ninth Meeting, GEN/DNT/PV-89, May 8, 1959, pp. 6-9.

⁵⁸Ibid., Verbatim Transcript of Seventy-fifth Meeting, GEN/DNT/PV-75, April 15, 1959, pp. 3-5.

⁵⁹For full texts of above articles see Appendix A.

⁶⁰Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Eightieth Meeting, GEN/DNT/PV-80, p. 30. The U.S. representative requested a recess because of the impending Geneva meeting of Foreign Ministers to be held on May 14, 1959.

⁶¹"Letter from the Soviet Premier (Khrushchev) to President Eisenhower Regarding Nuclear Test Suspension, May 14, 1959," Documents on Disarmament 1945-1959, Vol. II 1957-1959, op. cit. pp. 1409-1411.

⁶²Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Ninety-fifth Meeting, GEN/DNT/PV-95, June 15, 1959, pp. 3-10.

⁶³Ibid., Report of the Technical Working Group on the Detection and Identification of High-Altitude Nuclear Explosions, July 10, 1959, GEN/DNT/63, July 10, 1959, pp. 8-10.

⁶⁴Conference on the Discontinuance of Nuclear

Section 10. The following provisions shall apply to the provisions of the Act:

11. For full text see Appendix A.

12. The provisions of the Act shall apply to the provisions of the Act.

13. The provisions of the Act shall apply to the provisions of the Act.

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19. The provisions of the Act shall apply to the provisions of the Act.

20. For full text of above sections see Appendix A.

21. The provisions of the Act shall apply to the provisions of the Act.

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23. The provisions of the Act shall apply to the provisions of the Act.

24. The provisions of the Act shall apply to the provisions of the Act.

25. The provisions of the Act shall apply to the provisions of the Act.

Weapon Tests, Verbatim Transcript of One Hundred and Twenty-first Meeting, GEN/DNT/PV-121, August 10, 1959, p. 10.

⁶⁵Ibid., p. 13.

⁶⁶Ibid., Verbatim Transcript of One Hundred and Twenty-seventh Meeting, GEN/DNT/PV-127, August 26, 1959, pp. 4-5.

⁶⁷Ibid., p. 5.

⁶⁸Ibid., Verbatim Transcript of Ninety-fourth Meeting, GEN/DNT/PV-94, June 12, 1959, pp. 24-31.

⁶⁹Ibid., p. 36.

⁷⁰Ibid., Verbatim Transcript of Ninety-seventh Meeting, GEN/DNT/PV-97, June 17, 1959, pp. 23-24.

⁷¹Ibid., Verbatim Transcript of One Hundred and Eighth Meeting, GEN/DNT/PV-108, July 9, 1959, pp. 3-4; and GEN/DNT/66.

⁷²Ibid., Verbatim Transcript of Ninety-ninth Meeting, GEN/DNT/PV-96, June 16, 1959, p. 7.

⁷³Ibid., Verbatim Transcript of One Hundredth Meeting, GEN/DNT/PV-100, June 22, 1959, p. 6.

⁷⁴Ibid., p. 14.

⁷⁵Ibid., Verbatim Transcript of One Hundred and Thirteenth Meeting, July 30, 1959, pp. 4-5.

⁷⁶Ibid., p. 14.

⁷⁷Ibid., Verbatim Transcript of One-Hundred-and-Fourteenth Meeting, GEN/DNT/PV-114, July 24, 1959, pp. 10-12.

⁷⁸Ibid., Verbatim Transcript of One-Hundred-and-Fifteenth Meeting, GEN/DNT/PV-115, July 27, 1959, pp. 4-6; and GEN/DNT/66.

⁷⁹Supra., pp. 44-45.

⁸⁰Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of One-Hundred-and-Fifth Meeting, GEN/DNT/PV-105, June 30, 1959, p. 9.

⁸¹Ibid., Verbatim Transcript of Sixty-fifth Meeting, op. cit., p. 16.

⁸²Ibid., Verbatim Transcript of One Hundred and Seventh Meeting, GEN/DNT/PV-107, July 6, 1959, pp. 3-10.

⁸³Ibid., Verbatim Transcript of One Hundred and Twelfth Meeting, GEN/DNT/PV-112, July 17, 1959, pp. 3-7.

⁸⁴Ibid., Verbatim Transcript of One Hundred and Twenty-Second Meeting, GEN/DNT/PV-122, August 11, 1959, pp. 14-15.

⁸⁵Ibid., Verbatim Transcript of One Hundred and Twenty-Eighth Meeting, GEN/DNT/PV-128, October 27, 1959, pp. 5-13.

⁸⁶Ibid., Verbatim Transcript of One Hundred and Thirtieth Meeting, GEN/DNT/PV-130, October 29, 1959, pp. 12-16.

⁸⁷Ibid., Verbatim Transcript of One Hundred and Thirty-seventh Meeting, GEN/DNT/PV-137, November 24, 1959, p. 14.

⁸⁸Ibid., Verbatim Transcript of One Hundred and Fiftieth Meeting, GEN/DNT/PV-150, December 17, 1959, pp. 1-4.

⁸⁹Ibid., pp. 5-16.

⁹⁰Ibid., pp. 18-19.

⁹¹Supra p. 29; and Conference on the Discontinuance of Nuclear Weapon Tests, GEN/DNT/21, GEN/DNT/58 and GEN/DNT/59.

⁹²Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of One Hundred and Forty-first Meeting, GEN/DNT/PV-141, December 1, 1959, pp. 10-13.

⁹³Ibid., Verbatim Transcript of One Hundred and Forty-Second Meeting, GEN/DNT/PV-142, December 3, 1959, pp. 25-32.

⁹⁴Ibid., Verbatim Transcript of One Hundred and Forty-Third Meeting, GEN/DNT/PV-143, December 4, 1959, pp. 3-9.

⁹⁵Ibid., Verbatim Transcript of One Hundred and

United States of America, 1961

Forty-Sixth Meeting, GEN/DNT/PV-146, December 10, 1959, p. 7.

⁹⁶Ibid., Verbatim Transcript of One Hundred and Forty-Seventh Meeting, GEN/DNT/PV-147, December 11, 1959, pp. 8-13.

⁹⁷Ibid., Verbatim Transcript of One Hundred and Forty-Eighth Meeting, GEN/DNT/PV-148, December 14, 1959, pp. 6-15.

⁹⁸Ibid., pp. 15-16.

⁹⁹Ibid., p. 17.

¹⁰⁰Ibid., Verbatim Transcript of the One Hundred and Fortieth Meeting, GEN/DNT/PV-140, November 30, 1959, p. 13. For full text see Appendix A.

¹⁰¹Ibid., Verbatim Transcript of One Hundred and Fifty-first Meeting, GEN/DNT/PV-151, January 12, 1960, pp. 6-10.

¹⁰²Ibid., Verbatim Transcript of One Hundred and Fifty-second Meeting, GEN/DNT/PV-152, January 13, 1960, pp. 7-12.

¹⁰³Ibid., Verbatim Transcript of One Hundred and Seventieth Meeting, GEN/DNT/PV-170, February 11, 1960, pp. 5-8.

¹⁰⁴Ibid., p. 10.

¹⁰⁵Ibid., pp. 14 and 26.

¹⁰⁶Ibid., Verbatim Transcript of One Hundred and Seventy-second Meeting, GEN/DNT/PV-172, February 16, 1960, pp. 6-7.

¹⁰⁷Ibid., Verbatim Transcript of One Hundred and Seventy-third Meeting, GEN/DNT/PV-173, February 17, 1960, p. 8.

¹⁰⁸Ibid., Verbatim Transcript of One Hundred and Eightieth Meeting, GEN/DNT/PV-180, March 2, 1960, pp. 7-9.

¹⁰⁹Ibid., Verbatim Transcript of One Hundred and Eighty-eighth Meeting, GEN/DNT/PV-188, March 19, 1960, pp. 13-14.

¹¹⁰Ibid., pp. 15-16.

¹¹¹Ibid., Verbatim Transcript of One-Hundred-and-Eighty-Ninth Meeting, GEN/DNT/PV-189, March 21, 1960, pp. 10-12.

¹¹²"Joint Declaration by President Eisenhower and Prime Minister Macmillan on Nuclear Tests, March 29," Documents on Disarmament 1960 (Washington: Government Printing Office, 1961), pp. 77-78.

¹¹³Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of One Hundred and Ninety-first Meeting, GEN/DNT/PV-191, March 31, 1960, pp. 3-6.

¹¹⁴Ibid., Verbatim Transcript of One Hundred and Ninety-fourth Meeting, GEN/DNT/PV-194, April 6, 1960, pp. 4-9.

¹¹⁵Supra, pp. 9-10.

¹¹⁶Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of One Hundred and Sixty-sixth Meeting, GEN/DNT/PV-166, February 4, 1960, p. 3.

¹¹⁷Ibid., Verbatim Transcript of One-Hundred-and-Eighty-fifth Meeting, GEN/DNT/PV-185, March 14, 1960, p. 4.

¹¹⁸Ibid., p. 13.

¹¹⁹Ibid., pp. 14-15.

¹²⁰Ibid., Verbatim Transcript of One Hundred and Fifth-fifth Meeting, GEN/DNT/PV-155, January 18, 1960, p. 5.

¹²¹Ibid., p. 6.

¹²²Ibid., Verbatim Transcript of One Hundred and Sixty-Third Meeting, GEN/DNT/PV-163, February 1, 1960, p. 17.

¹²³Ibid., Verbatim Transcript of One Hundred and Ninety-Seventh Meeting, GEN/DNT/PV-197, April 13, 1960, pp. 3-8.

¹²⁴Ibid., Verbatim Transcript of Two Hundred and Second Meeting, GEN/DNT/PV-202, May 3, 1960, pp. 3-5.

111. Conference on the Administration of Justice
1941-1942, Vol. 1, 1941, pp. 1-11.
112. Conference on the Administration of Justice
1941-1942, Vol. 2, 1941, pp. 1-11.
113. Conference on the Administration of Justice
1941-1942, Vol. 3, 1941, pp. 1-11.
114. Conference on the Administration of Justice
1941-1942, Vol. 4, 1941, pp. 1-11.
115. Conference on the Administration of Justice
1941-1942, Vol. 5, 1941, pp. 1-11.
116. Conference on the Administration of Justice
1941-1942, Vol. 6, 1941, pp. 1-11.
117. Conference on the Administration of Justice
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118. Conference on the Administration of Justice
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119. Conference on the Administration of Justice
1941-1942, Vol. 9, 1941, pp. 1-11.
120. Conference on the Administration of Justice
1941-1942, Vol. 10, 1941, pp. 1-11.
121. Conference on the Administration of Justice
1941-1942, Vol. 11, 1941, pp. 1-11.
122. Conference on the Administration of Justice
1941-1942, Vol. 12, 1941, pp. 1-11.
123. Conference on the Administration of Justice
1941-1942, Vol. 13, 1941, pp. 1-11.
124. Conference on the Administration of Justice
1941-1942, Vol. 14, 1941, pp. 1-11.
125. Conference on the Administration of Justice
1941-1942, Vol. 15, 1941, pp. 1-11.

¹²⁵Ibid., Verbatim Transcript of Two Hundred and Sixth Meeting, GEN/DNT/PV-206, May 27, 1960, pp. 8-9.

¹²⁶Ibid., Verbatim Transcript of Two Hundred and Eighth Meeting, GEN/DNT/PV-208, June 2, 1960, pp. 7-8.

¹²⁷Ibid., Verbatim Transcript of Two Hundred and Fourteenth Meeting, GEN/DNT/PV-214, June 15, 1960, p. 7.

¹²⁸Ibid., Verbatim Transcript of Two Hundred and Twenty-seventh Meeting, GEN/DNT/PV-227, July 12, 1960, p. 11.

¹²⁹Ibid., Verbatim Transcript of Two Hundred and Thirty-Seventh Meeting, GEN/DNT/PV-237, August 2, 1960, pp. 3-10.

¹³⁰Ibid., Verbatim Transcript of Two Hundred and Twenty-eighth Meeting, GEN/DNT/PV-228, July 13, 1960, pp. 5-6.

¹³¹Supra, pp. 78-79.

¹³²Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Two Hundred and Thirty-fourth Meeting, GEN/DNT/PV-234, July 26, 1960, pp. 10-15.

¹³³Ibid., pp. 15-17.

¹³⁴Ibid., Verbatim Transcript of Two Hundred and Thirty-sixth Meeting, GEN/DNT/PV-236, August 1, 1960, pp. 3-14.

¹³⁵Supra, pp. 88-90.

¹³⁶Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Two Hundred and Fifth Meeting, GEN/DNT/PV-205, May 12, 1960, p. 5.

¹³⁷Ibid., Verbatim Transcript of Two Hundred and Seventeenth Meeting, GEN/DNT/PV-217, June 22, 1960, pp. 22-27.

¹³⁸Ibid., Verbatim Transcript of Two Hundred and Twenty-eighth Meeting, GEN/DNT/PV-228, July 13, 1960, p. 7.

¹³⁹Ibid., Verbatim Transcript of Two Hundred and Forty-first Meeting, GEN/DNT/PV-241, August 11, 1960, pp. 12-19.

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¹⁴⁰Supra, p. 29.

¹⁴¹Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Two Hundred and Sixteenth Meeting, GEN/DNT/PV-216, June 21, 1960, pp. 4-6.

¹⁴²Ibid., Verbatim Transcript of Two Hundred and Twenty-fifth Meeting, GEN/DNT/PV-225, July 6, 1960, p. 6.

¹⁴³Ibid., Verbatim Transcript of Two Hundred and Thirtieth Meeting, GEN/DNT/PV-230, July 15, 1960, pp. 3-6.

¹⁴⁴Ibid., Verbatim Transcript of Two Hundred and Thirty-ninth Meeting, GEN/DNT/PV-239, August 5, 1960, pp. 4-9.

¹⁴⁵Ibid., Verbatim Transcript of Two Hundred and Third Meeting, GEN/DNT/PV-203, May 9, 1960, pp. 16-21.

¹⁴⁶Ibid., pp. 27-33.

¹⁴⁷Ibid., Verbatim Transcript of Two Hundred and Fifteenth Meeting, GEN/DNT/PV-215, June 20, 1960, pp. 3-8.

¹⁴⁸Ibid., Verbatim Transcript of Two Hundred and Seventeenth Meeting, op. cit., pp. 6-16.

¹⁴⁹Ibid., Verbatim Transcript of Two Hundred and Thirty-fifth Meeting, GEN/DNT/PV-235, July 27, 1960, pp. 3-5. For full text see Appendix A.

¹⁵⁰Ibid., Verbatim Transcript of Two Hundred and Forty-seventh Meeting, GEN/DNT/PV-247, September 27, 1960, pp. 9-10.

¹⁵¹Ibid., Verbatim Transcript of Two Hundred and Fiftieth Meeting, GEN/DNT/PV-250, October 5, 1960, pp. 3-10.

¹⁵²Ibid., Verbatim Transcript of Two Hundred and Sixtieth Meeting, GEN/DNT/PV-260, October 27, 1960, pp. 6-9.

¹⁵³Supra, pp. 112-114.

¹⁵⁴Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Two Hundred and Forty-eighth Meeting, GEN/DNT/PV-248, September 29, 1960, pp. 6-11.

¹⁵⁵Ibid., Verbatim Transcript of Two Hundred and Fifty-Sixth Meeting, GEN/DNT/PV-256, October 19, 1960, pp. 4-11.

¹⁵⁶Ibid., Verbatim Transcript of Two Hundred and Sixty-eighth Meeting, GEN/DNT/PV-268, November 21, 1960, pp. 12-13; and Verbatim Transcript of Two Hundred and Seventieth Meeting, GEN/DNT/PV-270.

¹⁵⁷Supra, p. 115.

¹⁵⁸Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Two Hundred and Fifty-Seventh Meeting, GEN/DNT/PV-257, October 20, 1960, pp. 4-7.

¹⁵⁹Ibid., pp. 8-14.

¹⁶⁰Ibid., Verbatim Transcript of Two Hundred and Seventy-fourth Meeting, GEN/DNT/PV-274, March 21, 1961, pp. 3-16. "Troika," a Russian word meaning three-horse team or three-man group, has been used to describe the tripartite organ proposed by the Soviet Union.

¹⁶¹Ibid., Verbatim Transcript of the Two Hundred and Eighty-first Meeting, GEN/DNT/PV-281, March 30, 1961, pp. 9-13.

¹⁶²Ibid., Verbatim Transcript of Two Hundred and Ninety-fourth Meeting, GEN/DNT/PV-294, April 20, 1961, pp. 6-13.

¹⁶³Ibid., Verbatim Transcript of Two Hundred and Ninety-seventh Meeting, GEN/DNT/PV-297, April 25, 1961, pp. 16-23.

¹⁶⁴Ibid., Verbatim Transcript of Two Hundred and Ninety-Ninth Meeting, GEN/DNT/PV-299, April 27, 1961, pp. 7-17.

¹⁶⁵Supra, p. 112.

¹⁶⁶Supra, p. 112.

¹⁶⁷Conference on the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of Two Hundred and Seventy-fourth Meeting, op. cit., pp. 16-27.

¹⁶⁸Ibid., Verbatim Transcript of Two Hundred and Seventy-fifth Meeting, GEN/DNT/PV-275, March 22, 1961, pp. 3-8.

122. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

123. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

124. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

125. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

126. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

127. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

128. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

129. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

130. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

131. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

132. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

133. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

134. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

135. Journal of the American Medical Association, Vol. 11, 1917, pp. 1-11.

169 Ibid., Verbatim Transcript of Two Hundred and Seventy-eighth Meeting, GEN/DNT/PV-278, March 27, 1961, pp. 3-16.

170 Ibid., Verbatim Transcript of Two Hundred and Seventy-ninth Meeting, GEN/DNT/PV-279, March 28, 1961, pp. 3-13.

171 Ibid., Verbatim Transcript of Two Hundred and Eightieth Meeting, GEN/DNT/PV-280, March 29, 1961, pp. 3-7.

172 Ibid., Verbatim Transcript of Two Hundred and Eighty-second Meeting, GEN/DNT/PV-282, April 4, 1961, pp. 5-10.

173 Ibid., Verbatim Transcript of Two Hundred and Eighty-sixth Meeting, GEN/DNT/PV-286, April 10, 1961, pp. 8-10.

174 Ibid., Verbatim Transcript of Two Hundred and Eighty-seventh Meeting, GEN/DNT/PV-287, April 11, 1961, pp. 3-11.

175 Ibid., Verbatim Transcript of Two Hundred and Ninety-Eighth Meeting, GEN/DNT/PV-298, April 26, 1961.

176 Ibid., Verbatim Transcript of Two Hundred and Ninety-second Meeting, GEN/DNT/PV-292, April 18, 1961, pp. 3-4.

177 Ibid., Verbatim Transcript of Two Hundred and Ninety-third Meeting, GEN/DNT/PV-293, April 19, 1961, pp. 3-10.

178 Ibid., Verbatim Transcript of Two Hundred and Ninety-sixth Meeting, GEN/DNT/PV-296, April 24, 1961, pp. 3-6.

179 Ibid., Verbatim Transcript of Three Hundred and Tenth Meeting, GEN/DNT/PV-310, May 26, 1961.

180 Ibid., Verbatim Transcript of Three Hundred and Eleventh Meeting, GEN/DNT/PV-311, May 29, 1961, pp. 6-7.

181 Ibid., Verbatim Transcript of Three Hundred and Thirteenth Meeting, GEN/DNT/PV-313, May 31, 1961, pp. 12-15.

¹⁸²Ibid., Verbatim Transcript of Three Hundred and Seventeenth Meeting, GEN/DNT/PV-317, June 12, 1961, pp. 6-13.

¹⁸³Ibid., Verbatim Transcript of Three Hundred and Thirty-seventh Meeting, GEN/DNT/PV-337, August 28, 1961, pp. 6-13.

¹⁸⁴Ibid., pp. 19-20.

¹⁸⁵Ibid., Verbatim Transcript of Three Hundred and Thirty-eighth Meeting, GEN/DNT/PV-338, August 30, 1961.

¹⁸⁶Ibid., pp. 23.

¹⁸⁷Ibid., Verbatim Transcript of Three Hundred and Thirty-Ninth Meeting, GEN/DNT/PV-339, September 4, 1961, pp. 3-9.

¹⁸⁸Ibid., pp. 13-26.

¹⁸⁹Ibid., Verbatim Transcript of Three Hundred and Fortieth Meeting, GEN/DNT/340, September 9, 1961, pp. 3-12.

¹⁹⁰Ibid., pp. 12-16.

¹⁹¹Ibid., Verbatim Transcript of Three Hundred and Forty-first Meeting, GEN/DNT/PV-341, November 20, 1961, pp. 12-24.

¹⁹²Ibid., pp. 25-31.

¹⁹³Ibid., pp. 31-35.

¹⁹⁴Ibid., Verbatim Transcript of Three Hundred and Forty-Fourth Meeting, GEN/DNT/PV-344, December 5, 1961, pp. 3-5.

¹⁹⁵Ibid., Verbatim Transcript of Three Hundred and Fiftieth Meeting, GEN/DNT/PV-350, January 16, 1962, pp. 3-9.

¹⁹⁶Ibid., pp. 9-16.

¹⁹⁷Ibid., Verbatim Transcript of Three Hundred and Fifty-Second Meeting, GEN/DNT/PV-352, January 26, 1962, pp. 3-7.

¹⁹⁸Ibid., Verbatim Transcript of Three Hundred and Fifty-third Meeting, GEN/DNT/PV-352, January 29, 1962, pp. 3-35.

THE UNITED STATES OF AMERICA, DISTRICT OF COLUMBIA, ss.
I, the undersigned, Clerk of the said District, do hereby certify that the within and foregoing is a true and correct copy of the original of the same as the same is on file in the office of the Clerk of the said District.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the said District at Washington, D.C., this 1st day of January, 1911.

JOHN W. HARRIS, Clerk of the District.

THE UNITED STATES OF AMERICA, DISTRICT OF COLUMBIA, ss.
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JOHN W. HARRIS, Clerk of the District.

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JOHN W. HARRIS, Clerk of the District.

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JOHN W. HARRIS, Clerk of the District.

CHAPTER IV

CONFERENCE OF THE EIGHTEEN-NATION COMMITTEE

ON DISARMAMENT MARCH 14, 1962 -

JUNE 21, 1963

I. BACKGROUND

After the Conference on Discontinuance of Nuclear Weapon Tests adjourned on January 29, 1962, after failure to reach a negotiable position, a series of private notes and talks transpired between the nuclear powers; and it was finally agreed that the nuclear weapons test ban issue be included in the discussions of the proposed Conference of the Eighteen-Nation Committee on Disarmament. This Committee was established after a series of notes and discussions between the United States and the Soviet Union as a forum for the discussion of general and complete disarmament and was scheduled to convene on March 14, 1962, in Geneva, Switzerland.

The eighteen members were selected from five North Atlantic Treaty Organization members, five Warsaw Pact members, and eight non-nuclear, non-aligned States. Thus, the members of the Committee for the forthcoming Conference were: the United States, the United Kingdom, Italy, Canada and France--the North Atlantic Treaty Organisation members;

CHAPTER IV

THE DEVELOPMENT OF THE CONSTITUTION

IN THE EARLY YEARS OF THE 19th CENTURY

1801-1810

SECTION I

After the conclusion of the American Revolution, the new nation was faced with the task of establishing a permanent government. The first step was to create a central authority, and this was accomplished by the adoption of the Constitution in 1787. The Constitution provided for a three-branch system of government, with the executive, legislative, and judicial branches each having its own distinct powers and responsibilities. The executive branch was headed by the President, who was elected by the people for a four-year term. The legislative branch consisted of the House of Representatives and the Senate, both of which were elected by the people. The judicial branch was headed by the Supreme Court, which was appointed by the President and confirmed by the Senate. The Constitution also provided for a system of federalism, in which the powers of the federal government were shared with the state governments. This was accomplished by the creation of a system of checks and balances, in which each branch of the federal government was given the power to check the powers of the other branches. This system of checks and balances was designed to prevent any one branch from becoming too powerful and to ensure that the government remained accountable to the people. The Constitution was a landmark document in the history of the United States, and it has served as the foundation for the nation's government ever since.

the Soviet Union, Czechoslovakia, Rumania, Poland, and Bulgaria--the Warsaw Pact members; Brazil, Burma, Ethiopia, India, Mexico, Nigeria, Sweden, and the United Arab Republic--the non-nuclear and non-aligned members. France declined to attend the Conference because she believed that only nuclear powers could take positive steps towards worthwhile disarmament measures.

II. THE FIRST PERIOD MARCH 14, 1962 - JUNE 15, 1962

Introduction

The Conference of the Eighteen-Nation Committee on Disarmament convened on schedule on March 14, 1962. They held fifty-six meetings in private session until the Conference recessed on June 15th. Also, during this period, the Subcommittee on the Discontinuance of Nuclear Weapon Tests was established with the United States, the Soviet Union, and the United Kingdom as members. The Subcommittee held eighteen meetings during this period.

Although the Conference was called a conference on disarmament, the majority of the time was spent on the nuclear weapons test ban issue. The positions of both sides was well aired and the non-aligned members contributed to the discussion with the Eight-Nation memorandum on April 16, 1962.

Opening Debate

After procedural matters had been attended to, the Conference began to hear opening statements; and it became immediately clear that the major issue would be the question of the nuclear weapons test ban.

At the second meeting, the Soviet representative criticized the United States for deciding to resume atmospheric testing in the latter part of April and further stated that the Soviet Union would reply in kind.

The United States representative in his opening remarks said that the United States was prepared to make every reasonable effort to reach agreement on a nuclear weapons test ban agreement. He added,

I had expected that a number of representatives might express here their regrets that the Soviet Union and the United States had resumed nuclear testing. But I had supposed that there was one delegation - that of the Soviet Union - which could not have found it possible to criticize the United States for doing so.¹

The other representatives in their opening remarks also called for renewed efforts to reach agreement on a nuclear weapons test ban. The Indian representative suggested an alternate approach to the problem. He suggested that

If the idea is that one cannot take for granted the results of the detection efforts by any one of the three countries involved in this matter - that is to say, if the United States is not prepared to accept the judgment on this score of the United Kingdom or the Soviet Union, or the other way round -

Opening Session

At the present moment, the only thing that is
 continuing to be done is the building of the
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it may be worth considering whether scientific detection stations could be established by national efforts in other countries or could be internationally established. If it is possible to spread bases all round the world to manufacture these weapons, it should also be possible to establish these peace stations in various parts of the world, in countries, that are only partly committed or are uncommitted to the two blocs. Then, in the event of an explosion, the results would come in from everywhere.

He contended that the problem is one of detecting nuclear explosions and that detection would establish proof of violation of a test-ban agreement. He added, "there had to be agreement, but agreements cannot be left to trust."²

The Ethiopian representative suggested an international scientific system of verification to resolve differences in results of national detection systems.³

Establishment of a Subcommittee on a Treaty for the Discontinuance of Nuclear Weapons Tests

On March 21, 1962, at the 6th meeting of the Conference, they approved the establishment of a Subcommittee on a Treaty for the Discontinuance of Nuclear Weapons Tests composed of the United States, the Soviet Union, and the United Kingdom. The subcommittee would pursue private talks towards reaching agreement on a Treaty for the Discontinuance of Nuclear Weapon Tests.

Subcommittee meetings. At the first meeting of the subcommittee, the Western representatives introduced a

proposal to amend the Western draft treaty of April 10, 1961, as amended on May 29, 1961 and August 30, 1961.⁴

The proposed amendments were:

1. Provisions for safeguarding other States against the consequences of preparations for testing. This would consist, in large part, of declarations on the part of heads of States that there will be no preparations for testing, and agreed rights to inspect, a certain number of times per year, equal numbers of declared sites on each side.

2. Provisions to shorten the time spent before the beginning of the inspection process. This would primarily be a question of the way the preparatory commission functioned and agreement to cooperate in speeding up, by all possible means, the establishment of detection facilities including temporary control posts.

3. Provisions to make the treaty comprehensive from the outset. This would mean, in essence, reduction to zero of the present threshold of 4.75 degrees seismic magnitude.

4. Provisions to allocate an agreed limited number of inspections within the inspection quota to zones which had normally little seismic activity.⁵

The Soviet representative rejected the new Western proposal and accused the West of submitting proposals that they knew were not acceptable. He reaffirmed the Soviet proposal of November 28, 1961, as the only basis for agreement and repeated the argument that national systems were now capable of detecting any explosion in any environment.⁶

On March 22nd at the 2nd Subcommittee meeting, the United Kingdom declared that the Western Powers were prepared to negotiate on the Western draft treaty as modified or

we are ready to do more than that; we are ready to scrap our draft treaty completely and to start all

proposed for 1955 and 1956. The total amount of 1955 is \$1,000,000 and the total amount of 1956 is \$1,000,000.

The proposed amounts are:

1. The proposed amount for 1955 is \$1,000,000. This amount is based on the estimated cost of the proposed project for 1955. The estimated cost of the proposed project for 1955 is \$1,000,000. The estimated cost of the proposed project for 1955 is \$1,000,000.

2. The proposed amount for 1956 is \$1,000,000. This amount is based on the estimated cost of the proposed project for 1956. The estimated cost of the proposed project for 1956 is \$1,000,000. The estimated cost of the proposed project for 1956 is \$1,000,000.

3. The proposed amount for 1957 is \$1,000,000. This amount is based on the estimated cost of the proposed project for 1957. The estimated cost of the proposed project for 1957 is \$1,000,000. The estimated cost of the proposed project for 1957 is \$1,000,000.

4. The proposed amount for 1958 is \$1,000,000. This amount is based on the estimated cost of the proposed project for 1958. The estimated cost of the proposed project for 1958 is \$1,000,000. The estimated cost of the proposed project for 1958 is \$1,000,000.

The total proposed amount for 1955 and 1956 is \$2,000,000.

The total proposed amount for 1957 and 1958 is \$2,000,000.

The total proposed amount for 1959 and 1960 is \$2,000,000.

The total proposed amount for 1961 and 1962 is \$2,000,000.

The total proposed amount for 1963 and 1964 is \$2,000,000.

The total proposed amount for 1965 and 1966 is \$2,000,000.

The total proposed amount for 1967 and 1968 is \$2,000,000.

The total proposed amount for 1969 and 1970 is \$2,000,000.

The total proposed amount for 1971 and 1972 is \$2,000,000.

The total proposed amount for 1973 and 1974 is \$2,000,000.

The total proposed amount for 1975 and 1976 is \$2,000,000.

The total proposed amount for 1977 and 1978 is \$2,000,000.

over again. We only ask that a nuclear test ban agreement should provide for some adequate measure, a minimum measure of international verification.⁷

The Soviet representative refused to be swayed by any arguments that the Western representatives put forward and repeated his arguments on the appropriateness of the Soviet proposal of November 28th for a complete ban on nuclear weapons tests and reliance on national detection systems which he declared were now completely adequate.⁸

Subcommittee deadlocked. On March 22nd, the Subcommittee submitted their report to the Conference and declared that they had been unable to report any progress in reaching agreement.

Deadlock continues but positions aired. The Subcommittee reconvened on March 28th, but there was no change in positions and the deadlock continued. However, certain points were aired that set forth the basic positions clearer.

The Soviet argument boiled down to that she could not accept controls and inspection without genuine disarmament because it would be nothing but a disguise for espionage which would be a threat to her national security. The Soviet representative argued that because there had not been any complaints or accusations from the Western Powers during the moratorium, this proves the adequacy of national detection systems.

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The United States representative in reply to the Soviet argument that there had not been any Western complaints during the moratorium and thus proves the effectiveness of national systems said,

. . . the fact is that although we in the United States knew that the United States itself was not conducting any nuclear tests we did not know at all what was taking place on the territory of the Soviet Union Yes, indeed, our scientists did record hundreds of seismic or acoustic signals during those three years of negotiation, and some of them may have looked as if they could have been caused by a secret underground nuclear detonation, or perhaps by very heavy chemical explosions, or perhaps by earthquakes. But how could we say anything at all? We had no data enabling us to identify one detected signal from another as a nuclear explosion; we had no right whatsoever to seek an on-site inspection; we did not wish to voice suspicions in a way that might interfere with the test ban negotiations. So we had to keep our silence, with our many unconfirmed suspicions some of which did emerge in the press or in public statements by private individuals

I submit that nothing could prove more clearly the need for an international control system, for whether the Soviet Union was or was not testing, many people in the United States believed that during this period the Soviet Union was secretly testing, and all we, the Government, could say was that we had no evidence.⁹

Discussion of the Nuclear Weapons Test Ban Shifts to the Conference

With continued deadlock in the Subcommittee, discussion on the test ban issue shifted to the Conference.

At the 13th and 14th Meetings of the Conference, the non-aligned members of the committee kept the attention of the Conference on the nuclear weapons test ban issue and proposed several methods of breaking the continuing deadlock.

The Burmese representative proposed that a more simple system could be used, eliminating international control posts from the territories that object to them but retaining the right of conducting an agreed number of properly safeguarded on-site inspections by an international control organization.¹⁰

The Swedish representative recommended further use of existing scientific establishments which could be coordinated into an international system. Further, he recommended the establishment of a commission composed of prominent scientists to analyze the data received from these stations to determine if a violation had incurred. He also asked that invitational inspection might be the solution if coupled with the right of withdrawal of the other parties if it is refused.¹¹

The Mexican representative made a similar recommendation in relation to inspection, but he went further to say that the country concerned would be required to furnish additional reports and data and the control commission should have the right to confirm the data by direct observation.¹²

Summary of the United States position. On April 4th at the 15th meeting of the Conference, the United States representative summarized the present United States position. He stated it as: First, the United States wanted a

test-ban treaty which gave reasonable assurance that all countries were stopping tests and would be unable to resume them without being exposed; second, the United States believed that only an international control system with a network of control posts, aircraft sampling flights, and on-site inspections, together with an internationally organized headquarters offered an adequate technical basis for control; third, only an international system was politically sound, for without it there could be no way to obtain impartial data and settle disputes; fourth, the United States was not wedded to a single formula and was willing to examine all suggestions; fifth, the United States was unable to find any justification for the Soviet rejection of international controls.¹³

Summary of the Soviet Position. The Soviet representative at the 15th meeting also summarized the Soviet position. He stated that the Soviet Union still maintained that national systems of detection and identification were fully sufficient. In relation to the question of on-site inspections, he declared that the Soviet Union would not agree to international inspection of unidentified events on its territory, short of agreement on general and complete disarmament. He then introduced a Soviet Government statement which attributed lack of progress to the resumption of nuclear tests by the United States which was not

"conducive to businesslike negotiations on general and complete disarmament." The statement blamed the Western Powers for the failure of the conference because they refused to acknowledge that national systems were adequate for control and the reluctance of the Western Powers to stop testing.¹⁴

The Question of Continued Tests and a Moratorium

The conference discussion shifted to consideration of the question of testing by Nuclear Powers while the conference was meeting.

On April 9th, President Kennedy and Prime Minister Macmillan sent a joint letter to Premier Khrushchev which basically stated that if the Soviet Union could not reconsider its position and express a readiness to accept the principle of international verification, then the planned nuclear tests for April would go forward as planned.¹⁵

On April 12th, Premier Khrushchev replied to the joint letter and accused the Western Powers of trying to force inspection on the Soviet Union for other than control reasons. He reaffirmed the validity of the Soviet proposal of a comprehensive test ban treaty with the use of national systems for verification and control.¹⁶

Conference discusses the testing issue. On April 12th at the 19th meeting, the non-aligned members of the

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Conference called on the Nuclear Powers not to resume testing while the negotiations were continuing.

The Soviet representative announced at the April 12th meeting that the Soviet Union would agree to renounce nuclear testing while negotiations were taking place in the Conference. In concluding his statement, he said "the Soviet Union was ready to consider seriously all the points of view put forward in the present meeting and in the earlier debates on this question." Further he said, the Soviet Union will "pursue all possibilities that may offer themselves in order to insure the signing of a treaty putting an end to all forms of testing of nuclear weapons."¹⁷

United States rejects new Soviet offer for a moratorium. Also on April 12th, the United States Department of State released a statement rejecting the Soviet offer for a new moratorium and termed it "another unfortunate effort to substitute paper pledges for guaranteed agreements." In rejecting the moratorium, the statement contended that

the United States does not intend to place its security and the security of its allies at the mercy of Soviet on-again-off-again tactics. We are ready to conclude an effective test ban agreement now. But we cannot be led into another paper pledge which, far from guaranteeing a halt to nuclear testing, would only give rise to a false sense of security and provide yet another opportunity for the Soviet Union to prepare in secret for its own nuclear testing.¹⁸

The Eight-Nation Memorandum

On April 16th at the 21st meeting of the Conference, the representatives of Brazil, Burma, Ethiopia, India, Mexico, Nigeria, Sweden, and the United Arab Republic introduced a joint memorandum putting forth certain suggestions and ideas for the Nuclear Powers to consider as a possible means of breaking the deadlock that was preventing them from reaching agreement on a nuclear weapons test ban.

The memorandum stated that there were certain areas of agreement as well as existing differences, and these areas of agreement should be explored further and extended. They commended for the consideration of the Nuclear powers the following suggestions and ideas as a means of extending the areas of agreement and to assist them in reaching a final agreement on banning nuclear tests.

. . . possibilities exist of establishing by agreement a system for continuous observation and effective control on a purely scientific and non-political basis. Such a system might be based and built upon already existing national networks of observation posts and institutions, or if more appropriate, on certain of the existing posts designated by agreement for the purpose together, if necessary, with new posts established by agreement. The existing networks already include in their scientific endeavours the detection and identification of manmade explosions. Improvement could no doubt be achieved by furnishing posts with advance instrumentation

Furthermore, the feasibility of constituting by agreement an International Commission, consisting of a limited number of highly qualified scientists, possibly from non-aligned countries together with the appropriate staff might be considered. This Commission should be entrusted with the tasks of processing all data received from the agreed system

of observation posts and of reporting on any nuclear explosion or suspicious event on the basis of thorough and objective examination of all the available data. All parties to the treaty should accept the obligation to furnish the Commission with the facts necessary to establish the nature of any suspicious and significant event. Pursuant to this obligation the parties to the treaty could invite the Commission to visit their territories and/or the site of the event the nature of which was in doubt

Should the Commission find that it was unable to reach a conclusion on the nature of a significant event it would so inform the party on whose territory that event had occurred, and simultaneously inform it of the points on which urgent clarification seemed necessary. The Party and the Commission should consult as to what further measures of clarification, including verification in loco, would facilitate the assessment. The party concerned would, in accordance with its obligation referred to . . . above, give speedy and full cooperation to facilitate the assessment.

After full examination of the facts, taking into account any additional data furnished to it as suggested above, the International Commission would inform the parties to the treaty of all the circumstances of the case and of its assessment of the concerned event.

The parties to the Treaty would be free to determine their action with regard to the treaty on the basis of reports furnished by the International Commission¹⁹

Western and Soviet Interpretation of the Memorandum

Soviet interpretation. On April 196, the Soviet representative introduced a statement from the Soviet Government welcoming the Eight-Nation proposal. The statement set forth that the Soviet Government interprets the memorandum as involving national networks of detection posts only, plus an international commission which would process and analyze data. As to the question of inviting the international commission to conduct on-site inspections

of suspicious events, the statement said this should be decided by the States themselves. The Soviet Union it said would be willing to study the proposal as a basis for further negotiations and would agree to a moratorium during the negotiations if the West did likewise.²⁰

Western interpretation. The representative of the United Kingdom said he interpreted the memorandum to mean that it endorsed the principles of international control and on-site inspection and further that the United Kingdom would accept it as a basis for negotiation if the Soviet Union accepted this interpretation of it.

The United States representative stated that the United States position remained that the international commission must have unquestioned right of inspection. He argued that a State could physically prevent on-site inspection but the legal right of inspection must be recognised. To support this argument he said,

if there was ambiguity in the treaty on this point, or on the relationship between the international control commission and the several States parties to the treaty, and if the responsibility for the preventing this on-site inspection could not be laid firmly on any party to the treaty this would affect the decision of other parties to consider themselves free of their treaty obligations, and the world would not know precisely what had happened.

In relation to the Soviet statement in reference to the Eight-Nation proposal, the United States representative

remarked, that it appeared that the Soviet Union was willing to negotiate only on those aspects of the proposal that were compatible with their position but to ignore the provisions involving international control and on-site inspection. He added, however, that the United States was willing to use the proposal for further discussions if the Soviet Union did not reject international controls and adequate on-site inspection.

He denied the Soviet claim of the detection and identification capabilities of national systems to monitor all nuclear explosions and requested the Soviet Union to introduce scientific evidence to support their claim.

As to the question of an uncontrolled moratorium, he said,

the United States was prepared to negotiate on the basis of the principles of the United States/United Kingdom draft treaty and the experts reports of 1958 and 1959, but it would renounce tests only when a sound and reasonable test ban treaty providing for measures of effective international control and adequate and objective scientific on-site inspection, had been signed.²²

Soviet comments on Western interpretation. The Soviet representative in exercising his right of reply stated that the United States and the United Kingdom were only willing to continue the negotiations if the Soviet Union accepted their conditions. He also charged them with rejecting the Eight-Nation memorandum as a basis for further negotiations. He repeated the Soviet position

1. The Commission has been informed that the Government of the United Kingdom is considering the possibility of providing financial assistance to the Government of the United States for the purpose of financing the construction of a new bridge across the River Mersey at Liverpool. The Commission has been asked to consider the possibility of providing financial assistance to the Government of the United States for the purpose of financing the construction of a new bridge across the River Mersey at Liverpool.

[illegible]

that no chance of agreement could come about with nuclear explosions in the background and reaffirmed the Soviet willingness to agree to a moratorium during the negotiations.²³

Subcommittee Discusses the Eight-Nation Proposal

Despite the apparent difference of interpretation of the Eight-Nation memorandum the Nuclear Powers agreed to discuss the memorandum in the Subcommittee.

At the 9th meeting of the Subcommittee on April 20th, the United States representative charged the Soviet Union of unilaterally misinterpreting the Eight-Nation proposal. He added that if progress is to be made, the Western Powers must know whether the Soviet Union was really changing its position and was now willing to accept a properly staffed and financed international control organization and to permit on-site inspection on its territory when requested by the international commission.²⁴

The Soviet representative refused to add to the previous Soviet interpretation of the proposal until the Western Powers had accepted the proposal as a basis for negotiation. He accused the Western Powers of maintaining their previous position while considering the new proposal.²⁵

At the April 24th meeting of the Subcommittee, the Soviet representative clarified the Soviet view of where

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On 12/12/1964, the following information was received from the Bureau of the Census:

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the Eight-Nation proposal fit in between the Soviet proposal and the Western proposal. He stated that the Eight-Nation memorandum was a compromise between the Western draft treaty which provided for 12-20 inspections a year and the Soviet proposal of November 28 which proposed none because it proposed inspection by invitation. He continued that the international scientific commission proposed by the memorandum was a compromise between the Western demand for a world network of control posts and the Soviet proposal which relied on national detection systems. He also declared in concluding his statement that the Soviet Union did not object to the creation by agreement of new observation posts to transmit data to the international commission as proposed by the memorandum.²⁶

The United States representative also at the April 24th meeting of the Subcommittee clarified the Western interpretation of the Eight-Nation memorandum and said it implied the following verification arrangements:

1. Effective detection through an international network of control posts which may be based on existing national systems, supplemented by international stations or a combination of both.

2. An international organ or body whose duty will be receiving and processing data from the control posts, and thereafter taking action on the basis of the data it receives and analyzes from this new system of control posts.

3. Some effective means of establishing the identity of any detected event where data from the detection apparatus are in themselves inadequate to determine whether a nuclear explosion or a natural event took place; and

4. An obligation - I repeat, obligation - on the part of the country on whose territory the unidentified event has taken place to allow this international organ or body the right to identify the event in the only way possible . . . by sending to the territory of the country where the unidentified event has taken place an objective, scientific inspection team which will report back to the international organ or body.

He continued that, although the United States believes that a truly international system of control posts is best, it is prepared to examine the possibility of constructing, on the basis of existing systems,

an international, supplemented or integrated control post network which will give the necessary degree of assurance and which, through mechanical, technical and other safeguards will also provide reliable scientific and trustworthy data.

In relation to the international scientific or headquarters body, he stated, there was general agreement on this point in the past and there appears to be agreement on this point now. However, he added, this body must be:

(1) armed with an agreed and objective series of criteria against which to check recorded data from properly placed control posts with appropriate instrumentation in order to determine, wherever possible, that a nuclear test has or has not taken place;

(2) provided with agreed criteria with which to isolate those data which are only indicative of the fact that a test could have taken place, where it is not possible by the use of data from detection systems instrumentation to ensure that a test has not taken place;

(3) equipped with procedures and methods to ensure that the data showing testing could have taken place are adequately investigated so that the true nature of a particular unidentified event is scientifically established; and

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(4) staffed with impartial, scientific personnel so that all participating States can have confidence and trust in the objectivity of whatever conclusions the body may draw.

He concluded his statement by summarizing the views of the United States in reference to the issues contained in the Eight-Nation memorandum. He stated these views as: first, there appears to be agreement between the two sides that the memorandum can be an effective and useful document and that it can be one of the basis for further negotiations, but not an exclusive basis; and second, there is also apparent recognition of the necessity of an international network of control posts, the requirement for an international scientific headquarters body, and the need for an effective means to identify certain events which might be nuclear explosions.²⁷

The discussions in the Subcommittee continued, but there was no appreciable change in positions in reference to the interpretation of the Eight-Nation memorandum. At the May 3rd Subcommittee meeting, the Soviet representative said that the meetings had reached an impasse because of the Western continued adherence to their old positions on international control and mandatory on-site inspections.²⁸

Non-aligned Nations Express their Views on the Impasse

On May 9th at the 34th meeting of the Conference, the

non-aligned members discussed the problem of the impasse in the Subcommittee. They did not offer any interpretation of their memorandum because they felt that this was up to the Nuclear Powers to interpret the memorandum, but they did make some suggestions.

The Mexican representative suggested that the Nuclear Powers study the network of observation posts, the composition of the commission and the principle of international control. He stressed that it was not possible to guarantee treaty observance through coercive means, "the only sanction was moral condemnation by public opinion and the fact that the offended party would automatically consider itself freed from the obligations undertaken under the treaty." He added,

in view of the situation, it seems to us that it is becoming increasingly urgent and essential every day to draw up an agreement fixing now - I repeat, now - the date for the discontinuance of nuclear tests, even if this cannot be before the conclusion of the series of explosions already begun and before the beginning of the answering series announced by the Soviet Union. The plans of both parties for carrying out explosions must have an end, and this end should be fixed now in a treaty . . . so that this year or the beginning of next year may see a definite end to the senseless nuclear competition.²⁹

The Swedish and Indian representatives urged the nuclear powers to stop arguing about interpretation and discuss the issues.³⁰

Deadlock Continues in the Subcommittee

On May 11th at the 13th meeting of the Subcommittee, the Soviet representative stated that the Eight-Nation proposal could serve as a framework of agreement and asked the Western representatives to record agreement on the following principles: first, use of existing national detection systems, supplemented where necessary by other observation posts established by agreement; second, on an international commission of scientists with appropriate staff; and third, on inspection by invitation.³¹

The Western representatives refused to agree because they considered this proposal as being too general and unclear, and suggested a meeting of technical experts to discuss the possibilities of national systems and additional observation posts.³²

The Soviet representative in reply stated that this course would only add to the deadlock. He added that the Soviet Union would agree to set up the International commission if the Western Powers accepted national systems, and they would agree to inspection if the West agreed that it should take place by invitation.

In relation to the question of whether the Soviet Union would, in fact, invite inspection, he replied, "in individual cases scientists belonging to the International

commission should be invited to establish in loco the nature of events about which doubt has arisen."³³

At the final Subcommittee meeting during this period on May 29th, the United States representative summarized the current situation in the negotiations.

He denied the claim of the Soviet Union that existing national systems could detect and identify all nuclear explosions. He analyzed the current Soviet position as using the existing national systems and not supplementing them as had been proposed where necessary. He said it also appears that national systems would only report data to the international commission relating to events considered suspicious by each national system under the Soviet proposal.

In relation to the international commission, he contended that such an international commission under the Soviet proposal would not bother the Soviet Union at all. He pointed out that under the Soviet proposals the commission would simply have to analyze such data as national networks chose to provide and then try to settle any questions by discussion with the party concerned. At most, he continued, a party might "on occasions of its own choosing, decide for its own reasons to invite a few members of the commission to pay what would amount to a purely social visit to some innocuous site."

In conclusion, he said that there was still no clear evidence that the Soviet Union had moved from their November 28, 1961, position.³⁴

Summary

On June 15, 1962, the Conference took a recess until July 16, 1962. Before the recess there were several meetings at which the representatives summarized their views on the progress of the Conference. All recognized the value of the Eight-Nation proposal, but there was still a wide difference of opinion in the interpretation of that proposal by the West and the Soviet Union. Although there did not appear to have been any appreciable progress, there had been a wide airing of views which prompted the Eight-Nation Memorandum; and even though the issues remained deadlocked, the positions were more clearly recognized.

Thus, the first period of the Conference of the Eighteen-Nation Committee on Disarmament came to a close after fifty-six plenary sessions and eighteen meetings of the Subcommittee on a Treaty for the Discontinuance of Nuclear Weapon Tests during which the majority of the discussion revolved around the continued quest for a nuclear weapons test ban agreement.

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III. THE SECOND PERIOD JULY 16, 1962 -
SEPTEMBER 7, 1962

Introduction

The second period of the Conference of the Eighteen-Nation Committee on Disarmament commenced when the Conference reconvened on July 16, 1962. Before the Conference recessed on September 7, 1962, twenty-six plenary sessions were held and the Subcommittee on a Treaty for the Discontinuance of Nuclear Weapon Tests held seven formal meetings.

Debate continued in the plenary meetings and the Subcommittee over the interpretation of the Eight-Nation Memorandum. The introduction of two draft treaties, one comprehensive and the other for a partial ban, by the United States and the United Kingdom on August 27, 1962, put the Western position into concise treaty language. The non-aligned members of the Conference continued to put forth various suggestions in an effort to bring the Nuclear Powers together to work towards an acceptable solution of the nuclear weapons test ban issue. As in the first period, the nuclear weapons test ban issue remained the major topic discussed during this period.

United States Introduces Report on Project Vela

On July 16, 1962, at the first plenary meeting of this period, the United States representative introduced

THE UNITED STATES OF AMERICA
 DEPARTMENT OF THE ARMY
 WASHINGTON, D. C. 20315

MEMORANDUM

TO: The Adjutant General
 FROM: The Adjutant General

SUBJECT: The Adjutant General's Office
 The Adjutant General's Office is the principal office of the Adjutant General's Department, and is responsible for the administration of the Department.

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ADJUTANT GENERAL'S OFFICE

THE ADJUTANT GENERAL'S OFFICE IS THE PRINCIPAL OFFICE OF THE ADJUTANT GENERAL'S DEPARTMENT, AND IS RESPONSIBLE FOR THE ADMINISTRATION OF THE DEPARTMENT.

the preliminary findings of Project Vela, the seismic research program carried out by the United States. The United States representative commenting on this preliminary report of the results of the program said,

the problems involved in this report of research are the central ones in the negotiation of a comprehensive test ban. The questions both of the respective capabilities of distant and close-in instrumentation to detect and identify seismic disturbances, and of the way in which all types of instrumentation can be best combined in a control system, are crucial in determining the level of control system effectiveness. These questions also give the measure, as well as the extent, to which on-site inspections must be employed.

He suggested that because of the importance of this scientific data that the conference spend several meetings either formal or informal discussing this data and also look at some implications this data has on the issues before the conference.³⁵

Soviet Union rejects the new data. On July 20th at the 21st meeting of the Subcommittee, the Soviet representative denied the necessity to conduct scientific research for reaching an accord on a nuclear test ban. He contended that the new scientific data was not "germane" to the present negotiations and that "if there really is anything new in these data, this new material tends to support our position and not yours."³⁶

Western reply to Soviet rejection. At the 22nd Subcommittee meeting, the United States representative denied

the Soviet charge that the new data would support the Soviet case and not the Western. He argued that

these findings do not demonstrate the possibility of doing away with either international control posts located on various parties territory or the necessity for a certain appropriate number of on-site inspections to determine the precise nature of unidentified events.¹⁷

Debate About Testing During the Negotiations

Soviet Union resumes testing. When the Soviet Union announced on July 21st that they intended to conduct another series of atmospheric tests, this started extensive debate on the subject in the Conference.

United States comments. At the 60th meeting of the Conference on July 24th, the United States representative remarked,

After the Soviet Union last year abandoned the moratorium and conducted a series of more than forty tests, I suppose that it felt that it had a right to test last. Be that as it may, members here will remember that, even after that series of more than forty tests, the United Kingdom and the United States made proposals for the stoppage of testing at that point and forever--the principal price for which, in terms of assurance, was that international inspection be permitted to look at less than one part in two one-thousands of Soviet territory in any given year. That was after that series of tests and before the recent United States series of tests, but even that farthing was not paid to bring this testing to and end.

He concluded by saying,

there is suspicion that even a tiny bit of international inspection involves espionage affecting the security of the Soviet Union. But, surely, we can find some way not to have to deal with this problem of good faith; arrangements which make it

irrelevant; arrangements which provide assurance; arrangements upon which confidence can be built in the light of experience, as we move forward.³⁸

Soviet defense of position. At the 22nd Subcommittee meeting on July 26th, the Soviet representative denied that the Soviet Union had broken the moratorium. He referred to President Eisenhower's statement of December 29, 1959, when he said that the United States was no longer bound by the moratorium and to France's "systematically" carrying out bomb tests in the Sahara.³⁹

United States reply. The United States representative, in exercising his right of reply, simply said that President Eisenhower did not say that the United States would test and "indeed it did not do so," further he added that Premier Khrushchev on January 14, 1960, had said that the Soviet Union would not renew tests if the West did not resume testing. In reference to the last to test argument, he said, that the Soviet Union was the last to test before the moratorium went into effect in November 1958.⁴⁰

Interpretation of the Eight-Nation Memorandum

Western interpretation continued. At the 21st Subcommittee meeting on July 20th, the United States representative reviewed the major principles of the Eight-Nation Memorandum. He pointed out that the memorandum stipulated that the system might be based and built upon existing networks of observation posts, supplemented if

necessary by new posts by agreement. He continued, therefore,

if agreement on a control system had to be reached by the parties to a treaty which by definition, would be an international agreement, the system as a whole would be international in character. /In conclusion he contended,⁴¹ the obligation to accept on-site inspections by the representatives of the commission is in reality part and parcel of the obligation to furnish the commission with the facts necessary to establish the nature of any suspicious and significant event.⁴¹

Soviet comments on Western interpretation. The Soviet representative stated that it was the United States representative's interpretation alone which accorded the system of control posts an international character and that this was not inherent in the memorandum. He argued that the memorandum called for a national network and not an international network.⁴²

Controversy continues. At the 22nd meeting of the Subcommittee on July 26th, the debate over interpretation of the Eight-Nation Memorandum continued. The United States representative continued to maintain his position that the memorandum "explicitly" called for a system of international control posts and obligatory on-site inspections. He pointed out that the United States accepted the memorandum as "one basis" for further negotiations and that proposals such as the Mexican and Brazilian proposals, should be welcomed.⁴³

The Soviet representative replied that the West

was reading into the memorandum an interpretation of its own. He continued to argue that the memorandum was explicit in its description of control posts as being nationally manned and that inspection was not obligatory. He did admit, however, that there were some missing parts in the memorandum that were subject to interpretation, but the basic parts were being given a different interpretation by the West.⁴⁴

The Mexican and Brazilian Proposals Brought to the Forefront

The Mexican proposal suggesting a cut-off date for nuclear testing and the Brazilian proposal for a limited test ban for tests in the atmosphere and outer space were given wide discussion and were generally favored by the non-aligned nations as a solution to the present deadlock if agreement could not be reached on the basis of the Eight-Nation Memorandum.

Controversy over Mexican proposal. The matter of interpretation of the Mexican proposal for a cut off also became the center of controversy between the Soviet Union and the West. At the 634 meeting of the Conference, the representative from the United Kingdom, commenting on the Mexican proposal said,

a treaty should be signed and a date to be written into the treaty on which the ban would be fixed by agreement for a time sufficiently later to allow

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any country to make such last tests as it felt it required to make for national security.⁴⁵

At the 21st meeting of the Subcommittee, he also said that consideration be given to the Mexican proposal whereby the Nuclear Powers could fix a date, merely as an illustration, terminating nuclear tests and that such a date might be written into the test ban treaty.⁴⁶

The Soviet representative replied that the Western Powers were interpreting the proposal on their own conditions. According to him, the Mexican proposal suggested the setting of a date to terminate nuclear testing "whether an agreement has been reached by that time or not." The Soviet Union he said was willing to discuss the proposal but without conditions or provisos submitted by the West.⁴⁷

The United Kingdom representative argued that the West was not attaching conditions and provisos to the Mexican proposal. He continued to maintain that the inclusion of a terminal date for testing in a test-ban treaty was explicit in the proposal.⁴⁸

At the 61st meeting of the Conference, the Brazilian representative spoke in favor of the Mexican proposal but added that "it might have the undesirable effect of stimulating experiments during the rest of the current year."⁴⁹

At the 63rd meeting of the Conference, the Mexican representative again urged the Nuclear Powers to take up his proposal and further suggested the possibility of

and authority to make such laws as he may see fit to enact for the purpose of carrying out the provisions of the act.

At the first meeting of the Commission, the following resolutions were adopted: "Resolved, That the Commission be authorized to employ such persons as it may deem fit to employ for the purpose of carrying out the provisions of the act, and that it be authorized to make such laws as it may see fit to enact for the purpose of carrying out the provisions of the act."

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limiting the ban to atmospheric testing until an accord was reached on detection, identification, and controls concerning testing in other environments.⁵⁰

At the 64th meeting, the Swedish representative suggested that the following measures might be dealt with immediately: first, the adoption of the Brazilian proposal outlawing at least atmospheric and outer space testing; second, coupling of the Brazilian and Mexican proposals; third, the initiation of practical steps leading to a ban on underground tests as well, consisting of an inventory of existing geo-physical observation posts, specific plans for equipping some stations with modern instruments, invitation to institutes to accept as a more definitive obligation the duty to register internationally all data observed, a study of a rapid communications system, blueprints for additional stations and plans for creation of an international commission.⁵¹

New Proposals Submitted by the West

At the 23rd Subcommittee meeting on August 9th, the United States representative delivered a statement on the new proposals that the United States and the United Kingdom were introducing based on the results of the United States Project Vela.

He initially remarked that a number of technical conclusions which bear on the efforts of the United States

limiting the use of automatic testing until an agreed
was reached on objectives, instrumentation, and criteria
concerning testing is also recommended.¹⁷

At the meeting, the meeting participants
agreed that the following measures might be taken with
immediate effect: First, the adoption of the "Unified
Board" structure at least automatically and under some other
form of control; second, the adoption of the "Unified
Board" structure, the initiation of periodic status reports
to a team on development work as well, consisting of a
inventory of existing developmental objectives; third,
specific plans for studying new systems with major
development, including the initiation of studies as a means
of determining whether the way to system development
all data observed, a study of a single communication
system, objectives for additional studies and plans for
extension of an experimental program.¹⁸

New Research Initiated by the Navy

At the time recommendations leading to the Navy's
Unified Board representative delivery a statement on the
new program. That the United States and the United Kingdom
were interested based on the results of the United States
first and last.

The initially proposed plan is based on research
conclusions which have been the subject of the United States

to respond to the eight-nation initiative and to achieve a workable comprehensive test ban treaty have been brought about by an extensive evaluation of the suggestions offered by the eight nations and by the review of the findings of research programs on the detection and identification of underground seismic events. Two conclusions in particular offer real promise, he said: first, is a reassessment on the basis of increased experience, of seismic detection capability, which indicates a substantially better capability for long-range seismic detection than has been the case in the past; the second, is that the estimate of the number of earthquakes comparable to an underground nuclear test of a given magnitude has been substantially reduced from the previous estimate.

He indicated that these developments were significant for the following reasons:

First, the increase in long-range detection capability makes it possible to develop a worldwide network of control posts with substantially fewer detection stations in the Soviet Union, the United Kingdom, the United States, and other countries than those proposed in the April 13, 1961 United States-United Kingdom treaty draft.

Secondly, the decrease in the number of unidentified events with which a detection system will have to cope will make it possible to decrease the number of on-site inspections required for verification.

Thirdly, these developments do not provide a definite way of determining from seismic data in all cases that a particular seismic event has not been an underground explosion and, therefore, these developments do not eliminate the certain requirement of effective, reliable and objective on-site

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and the following reasons:

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inspections as an essential element of any system of verification.

He continued that on the basis of these developments, the United States is prepared to discuss a comprehensive test ban treaty based on "a world wide network of supervised national monitoring posts." This, he added, would also involve a reduction in the number of on-site inspections previously required by the United States.

The keystone to an agreement, he maintained, is the obligation to facilitate the on-site inspection called for under the treaty. This, he continued, is so

because many seismic signals can be identified as coming from earthquakes, but no seismic signal can as yet be positively identified as coming from nuclear explosions. Therefore, the only way to clear up the doubt as to the origin of an unidentified event is by on-site geographical inspection of the site from which the signal originated.

Technical developments, he continued, have not changed that conclusion. He added,

indeed, to the extent that greater reliance is placed on seismic data from distant stations the need for on-site inspection intensifies rather than diminishes. Therefore, on-site inspection goes to the very heart of the issue of verification of a comprehensive nuclear test ban.

To put the issue straight on the United States position in relation to the principle of on-site inspection, he spelled it out as follows:

1. There should be prompt certification by an appropriate official responsible to an international commission that a seismic event reported by a network of internationally supervised national stations

has been geographically located according to the agreed scientific criteria and has not been eliminated from consideration pursuant to agreed criteria.

(a) The United States position is that these criteria should be on a scientific basis, as stated previously. These criteria will, of course, be concerned with the location of a seismic event, including the approximate time and position of the event, and with events which can be eliminated as ineligible for inspection.

(b) The United States position on the area to be covered once an inspection has been certified may need to be broadened somewhat from that previously stated because of changed capability on geographical location of a network of fewer internationally supervised national stations.

2. Upon certification by the appropriate international official of events within the territory under the jurisdiction or control of the United States or the United Kingdom the agreed number of on-site inspections are to be carried out at the request of the Soviet Union. If such events are on the territory under the jurisdiction of the Soviet Union the agreed number of on-site inspections are to be carried out at the request of the United States or the United Kingdom. If such events are on territory under the jurisdiction or control of other parties the selection of events to be inspected is to be by agreed procedures.

3. Any party having jurisdiction or control of territory in which an on-site inspection is requested is obligated to facilitate the prompt on-site inspection of the area. The on-site inspections shall be carried out by teams organized by the international commission. These teams shall be organized on an objective basis which ensures adequate representation of scientific and technical skills, and on a basis which adheres to the principle that self inspection by nationals of the State inspected or of its allies must not be permitted.

In regards to Soviet resistance to inspection, he said, it appears to be motivated by two concerns. First, is that the Soviet Union will not tolerate inspection because inspectors may learn something of military value.

To alleviate this concern, he said the United States is "openminded" and quite reasonable about such matters as the means by which an inspection team would be transported from the border of the State to the site of the unidentified event. He called on the Soviet Union to put forward any proposal in this regard that she may have, and it will find the West "very reasonable indeed." The second concern the Soviet Union appears to have, he said, is that talking in terms of a "right" of on-site inspection by an international commission, this implies "somehow of a derogation of the sovereignty of the State on whose territory the inspection is demanded." He said that, if this is the problem, then the United States is prepared to consider the question in a different manner. That is,

it would be acceptable to the United States if, instead of stating a provision for on-site inspection as a right of the party requesting an inspection, the on-site inspection requirements were to be stated as an obligation to be fulfilled by the party on whose territory an unidentified seismic event occurred.

On the question of the number of on-site inspections, the United States representative outlined the present United States position. Up to this point, he said, the United States position on the number of on-site inspections has been for a sliding scale between twelve and twenty. However, he added that if the obligation to facilitate on-site inspections is accepted, the United States is prepared to consider a reduction from this

To illustrate this statement, he said the United States is "apparently" not quite responsible about what happens in the means by which an independent team would be organized from the border of the State to the side of the independent world. He called on the United States to get forward any proposal to this regard that the way have, and it will find the best "very reasonable" solution. The second member of the United States report to have, he said, is that nothing in terms of a "right" or "wrong" proposition by an international commission, this implies "nothing" in a proposition of the sovereignty of the State or even territory and interests in connection. He said that, if this is the position, then the United States is bound to consider the question in a different manner. That is,

It would be impossible to the United States if, instead of stating a position for an independent inspection as a right of the party requesting an inspection, the United States requested a right to be asked as an obligation to be fulfilled by the party on whom territory or interests are involved.

On the question of the number of possible inspectors,

The United States representative outlined the proposed United States position. Up to this point, he said, the United States position on the number of possible inspectors has been for a limited number between three and twenty. However, he stated that if the obligation to facilitate no-alien inspection is accepted, the United States is prepared to consider a number less than

figure based on the new scientific information. This number, he continued,

must take into account the detection, location, and identification capabilities of a network of internationally supervised national stations and the need to establish reasonable confidence on any side that no violation of the treaty will in fact occur.

The United States, he contended,

does not seek on-site inspections because it wants international inspectors of the commission moving on Soviet soil but rather, and only, because scientifically on-site inspections are an essential part of a truly verifiable nuclear test ban treaty.

He then proceeded to outline the network of internationally supervised national stations as envisaged by the United States. This new position of the West would differ in two ways from the previous Western position, he pointed out. First, it would involve a substantially smaller number of stations; and second, it would involve a network of international supervised nationally manned stations instead of a network of internationally operated stations. For this system to be effective, he said, it would require that the international commission be able to process systematically and regularly the scientific data received from all stations, including those from within a particular country. Therefore, he continued, the international commission must have: rapid and reliable communications; be assured that all posts are operated strictly and continuously in accordance with strict scientific standards; it must be assured that each station is being

operated at peak efficiency and data is being reported continuously and accurately without jamming or interference; personnel of the control stations must meet agreed standards; instrumentation of the control stations must be constructed, equipped and calibrated in accordance with agreed standards; the commission must be made promptly aware of any suspicious event; and each control station must be located at a quiet site in a region scientifically satisfactory to the commission.

In conclusion, he argued that "nationally manned control posts must be under effective and adequate supervision at all times. The objective is to have international supervision of a nature which provides effective international control, giving all parties to the treaty confidence that the nationally manned stations are continuously operating in the efficient and scientific manner required."

Summing up the present new United States position, he said it consists of: first, acceptance of the obligatory nature of on-site inspections; second, a willingness, once the proposal referred to first is accepted, to consider a reduction in the number of on-site inspections based upon a scientific evaluation and the need to provide all parties to a treaty with reasonable confidence that no violation of its provisions will occur; third, a willingness,

once the proposal referred to first is accepted, to consider a network of detection stations which: would involve a substantially smaller number of stations world-wide than the number previously proposed, including a substantially smaller number of stations in the Soviet Union; would involve internationally supervised, nationally manned stations instead of a network of internationally operated stations.⁵²

Soviet comments on the new proposals in the Subcommittee. The Soviet representative commented in the Subcommittee following the submission of the new Western proposals, that this new position on control posts and on-site inspection has not changed the position on the principle of the basic conditions on which agreement could be achieved. He continued that "it must also be emphasized in this connexion that the United States, while giving wide publicity to its new position, is in fact defending its old position, slightly dolled up for purposes of disguise." In addition, he added, the United States is only paying "lip service" to the Eight-Nation Memorandum and has not accepted the compromise proposals put forward by this memorandum. He continued that there is a cardinal difference between the invitational inspection concept put forward in the memorandum and the condition of acceptance of obligatory on-site inspection as the key to further

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[illegible]

negotiations under the United States proposals. He expounded his previous arguments that the new United States position is not scientifically and technically based; and, in the light of the new scientific data put forward by the United States, it has no grounds for adhering to its former position.⁵³

Test Ban Issues is Aired by the Conference

With the Subcommittee still deadlocked, the discussion of the test ban issue shifted to the plenary sessions.

United States reviews the issue. At the 69th meeting of the Conference, the United States representative reviewed the course of the test ban negotiations. He blamed the present deadlock on the obstructionism of the Soviet Union in refusing to budge from its interpretation of the Eight-Nation Memorandum and its refusal to discuss scientific matters which would facilitate steps leading to agreement.

As to the new United States proposals, he said, they were based on scientific and political realities and were consistent with the Eight-Nation Memorandum. As to on-site inspections, he continued, they will be necessary because even

a superior, well-operated system of detection stations . . . will not be able to identify all events detected by it.

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He contended that the Soviet interpretation of the Eight-Nation Memorandum on the subject of on-site inspection means that it is an "option to be honoured only if, at the time, the Soviet Union so desires."⁵⁴

Soviet representative comments on the issue. The Soviet representative commented that the United States new proposals contained "nothing hopeful or rational" and the United States position had remained unchanged. Further, he added, the proposals were an "ultimatum-like demand," whereby unless the Soviet Union accepted the obligatory on-site inspection principle, the United States was not prepared to examine other aspects of its own proposal.⁵⁵

United Arab Republic submits a new suggestion. The representative of the United Arab Republic commenting on the deadlock in the Subcommittee requested the Nuclear Powers to iron out their basic differences which he believed stemmed from "political considerations rather than from the observance of practicality." He continued that the Eight-Nation Memorandum remained the "best, the most practical, and the fairest basis" for an agreement and he questioned the need for "discussions of the modalities" of a test ban. In conclusion, he suggested that the Nuclear Powers explore the possibility of seeking agreement on "practical criteria" governing situations requiring compulsory on-site inspection.⁵⁶

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States support the principle of equal treatment

United States replies to Soviet statement. At the 70th meeting of the Conference, the United States representative denied the Soviet charge that the new United States proposals contained an ultimatum but instead they stressed the relationship between the acceptance of the principle of obligatory on-site inspection and the number of inspections and control posts. He continued that new scientific information had made it possible to reduce the number of on-site inspections and control posts but there would always be a certain number of unidentified events that could only be identified by on-site inspections. In conclusion, he said, "it would be rather a fruitless exercise to discuss the reduction in the number of inspections and control posts without acceptance of the principle of obligatory on-site inspection."⁵⁷

United States comments on UAR suggestion. At the 71st meeting of the Conference, the United States representative commented on the representative of the United Arab Republic's suggestion that the Nuclear Powers establish criteria governing situations requiring on-site inspection. He said that the joint United States-United Kingdom scientific research program was just such an approach. The results of this program have been introduced for discussion and the new Western proposals are a direct result of the

program, but, he added, the Soviet Union has refused to discuss this data.⁵⁸

Soviet Union critiques United States proposals and outlines the Soviet position on a test ban. At the 71st meeting also, the Soviet representative gave a formal reply to the United States statements on its position. He first said that a careful analysis of these statements revealed that they did not add anything constructive to the present debate. The Soviet analysis of the United States representative's statements was that he:

touched upon various aspects of the problem of a nuclear test ban treaty; he spoke at some length on the history of our negotiations, on the scientific aspect of the matter, on the analogy between on-site inspection and control over general and complete disarmament, and so on, and he asserted that the main requisite for the conclusion of an agreement on a test ban must be the recognition of the principle of international on-site inspection.

The Soviet representative pointed out that the lack of positive results in the negotiations can be attributed to

the Western Powers desire to make the solution of the problem of a nuclear test ban dependent upon an agreement by the Soviet Union to open its territory for a legalized intelligence system under the guise of international control and inspection.

He continued that the Soviet Union is just as much in favor of effective control over the compliance of a nuclear weapon test ban as anyone else. However, he added, "it does not believe it is necessary to have a form of international control which could be used as cover for

intelligence activities." Therefore, he argued, the Soviet Union after a thorough and many-sided study of the question has concluded that

compliance with the obligations of an agreement on the cessation of nuclear weapon tests can, with sufficient guarantees, be successfully verified by the use of existing national means of detection of nuclear explosions. It was on the basis of this careful conclusion that the Soviet Union submitted its 28 November 1961 proposal for the cessation of all nuclear weapon tests in the atmosphere, outer space, under water or underground, using for purposes of control, systems of national detection of nuclear explosions.

This proposal, he continued, was based on a new approach to the question of cessation of nuclear weapon tests which would eliminate difficulties and obstacles which had prevented agreement before. This approach, he said, made it possible to solve the problem without "jeopardizing the security of States." He added, this approach was rejected by the Western Powers "because it would have disturbed the intelligence plans of the United States and its NATO allies."

This was the situation, he contended, when the Eight-Nation Memorandum was submitted by the non-aligned States in an attempt to break the impasse. He continued that the Soviet Union accepted this memorandum as a basis for agreement, in an attempt to bring about the reaching of agreement on the cessation of nuclear weapon tests. This proposal of the non-aligned was a compromise because, he said, it recognized that a system of continuous

observation and effective control over the cessation of nuclear test can be based and built upon already existing national networks of observation posts and institutions. Further, he added, this memorandum proposed the establishment of an international commission composed of a limited number of highly qualified scientists to process the data received from national stations, thus adding an element of an "international nature" in the system.

As to the question of on-site inspection, he said the memorandum also puts forth a compromise proposal in that once a suspicious event is located by the commission, the country concerned will

give speedy and full cooperation to facilitate the assessment, thus the State concerned would have the responsibility of clearing itself by all means at its disposal, refusal to invite on-site inspection if that is the only way to finally verify the event would be reported to the other parties concerned and to world opinion.

This, he contended, would be a very serious matter and "a decision that could not be taken lightly." Therefore, he argued, the formula of an on-site inspection upon invitation without bringing to it the concept of an obligatory on-site inspection does not preclude the possibility of on-site inspection in concrete cases."⁵⁹

Indian representative expresses views on the issue.

At the 72nd meeting on August 20th, the Indian representative expressed the belief that the possibility for reaching

an agreement on a test ban was not remote, the main difficulties, he said, centered around the respective claims regarding the capability of national stations in detecting all types of events and the nature of on-site inspection. He pointed out, in this regard, that the United States position was that not all events were detectable, while the Soviet representative had said that national stations had detected practically all nuclear tests. To the Indian representative, these statements showed that there was not too wide a divergence of views on the question.

As to the problem of on-site inspections, he said, that the Eight-Nation Memorandum contained "built-in obligations" which would provide adequate assurance that the ban would not be violated. He pictured the international commission as a scientific body which would generate the spirit of mutual obligation and international duty, to which States would respond automatically if it called for a decision of requiring on-site inspection.

As to the deterrent effect idea as put forth by the United States, he felt that the memorandum contained such a scheme in that the international commission itself could call for inspection if a suspicious event occurred. He added that the Soviet statements indicated that they would comply with such a request.

He, therefore, concluded that there was little

substantive difference on the issues separating the Nuclear Powers from reaching agreement.⁶⁰

United States and United Kingdom Introduce Alternative Draft Treaties

Comprehensive test ban treaty. At the 750 meeting of the Conference on August 27th, the United States representative tabled a comprehensive test ban treaty based on the new Western proposals put forth by the United States and the United Kingdom. On introducing the new comprehensive draft treaty, he said that it was based on the scientific research program carried out by the United States and also takes into account the constructive suggestions of the Eight-Nation Memorandum. He summarized the treaty as follows:

This treaty provides for the cessation of all nuclear tests in all environments. The parties to the treaty would undertake to prevent and prohibit the carrying out of such tests at any place under their jurisdiction. Further, the parties to the treaty would refrain from causing, encouraging or in any way participating in the carrying out of any tests anywhere at any time.

These obligations would be supervised by an international scientific commission assisted by an international staff and a verification system. Each party would also undertake to cooperate with that commission in carrying out all measures of detection, location, identification and inspection, and in establishing elements of the system. The commission would have general responsibility for the collection of data on, and the reporting of, all events which could be suspected of being nuclear weapon test explosions and for making positive identification of the nature and origin of such events as necessary.

The draft treaty provides that the commission should consist of fifteen members--four from the

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West, four from the Soviet bloc and seven chosen from among parties jointly nominated by the United States, the United Kingdom and the Soviet Union. The United States, the United Kingdom and the Soviet Union would hold permanent membership on the commission.

The international staff would assist the commission by carrying out functions at the headquarters and by manning any international stations which might be set up by the commission in agreement with the parties concerned where that was considered desirable and was mutually acceptable. The staff would also participate in the international supervision, inspection and monitoring of the nationally manned detection stations.

The executive officer of the commission would be responsible for the staff under the direction of the commission. He would select the scientific and technical personnel for the international staff under criteria set forth in the treaty. The verification system would include nationally manned, internationally supervised and monitored detection stations to be constructed at sites which would be agreed upon by the parties to the treaty. The commission would establish the specifications and pay for maintaining, constructing, equipping and training of personnel for these nationally manned stations.

In addition, in so far as appropriate, use would be made of a number of national stations already in existence. The parties would assume an obligation to ensure that the system would begin operation at least six months after the entry into force of the treaty. Obligatory on-site inspection of unidentified events would be provided on the basis of carefully defined procedures laid down in the treaty. The executive officer, on behalf of the commission, would indicate which events had been located and remained unidentified after the application of criteria specified in the treaty.

The size of the area in any party's territory which might be inspected in connexion with any unidentified event would also be designated in the treaty. Inspection would take place under an annual quota arrangement for each country--an agreed maximum per year--but only if the events met the treaty requirements for eligibility for on-site inspection . . .

The objective of on-site inspections would be carried out by teams organized by the commission so as to prevent nationals from any State inspecting events on its own territory. States would assume

an obligation to facilitate and to cooperate in any on-site inspection undertaken under the treaty.

A party would have the right to withdraw from the treaty if it determined that the treaty had been violated, or the obligation to facilitate an on-site inspection had not been fulfilled, or a nuclear explosion was conducted by a State not a party to the treaty and such an explosion jeopardized the withdrawing States security, or an explosion occurred and it was not possible to identify the State conducting the explosion but such explosion might jeopardize the withdrawing party's national security, the withdrawing party would request that a Conference be called to include all other parties. Withdrawal would not take effect until the passing of a specified time.

The treaty would come into force on a specified date which would be subject to negotiation, thus incorporating the recommendation made by the Mexican representative on 9 May 1952.

The United States representative indicated that the keynote of the comprehensive treaty was the provision for obligatory on-site inspection which provides that all States have an "unconditionally, unequivocal and an honest Injun obligation to facilitate such an on-site inspection."

Partial test ban draft treaty proposal. The United States representative continued his statement that "the United States in this search for agreement is not content to leave any area unexplored or any worthwhile idea unproposed." He then went on to say,

the United States while continuing to negotiate urgently and in any appropriate forum for a comprehensive treaty, in the interests of all humanity, would nevertheless be prepared in an effort to reach the widest possible area of agreement, in the soonest possible time, to agree to a treaty banning nuclear weapon tests in the atmosphere, in outer space and underwater.

as indicated in the letter and as recorded in the
 minutes of the meeting held on the 15th.
 A copy of the letter was sent to the
 Director of the Department of the Interior and
 the Director of the Bureau of Land Management.
 The letter was also sent to the
 Director of the Bureau of Reclamation and
 the Director of the Bureau of Indian Affairs.
 The letter was also sent to the
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In proposing this partial treaty, he said that there are three reasons why such a treaty would be in the interests or a positive gain for society. First, it would result in a downward turn in the arms race; second, it would have an effect on all countries about to enter the nuclear arms race and make more difficult the proliferation of nuclear weapons; third, it would stop the radioactive pollution of the atmosphere, space and the oceans.

He then stated that briefly this treaty would:

- ban nuclear weapon tests in or above the atmosphere and in territorial waters or high seas;
- bind the signatories to refrain from encouraging or participating in such nuclear explosions by any other State;
- permit explosions prescribed in the treaty for peaceful purposes under conditions specified in the treaty;
- not require any international verification machinery;
- provide a cut-off date for testing; and,
- contain provision for withdrawal, after notice had been given, if a party deemed the treaty had been violated or that a State not a party to the treaty had tested and if the party also deemed this jeopardized its national security.

He continued that in the past a partial test ban treaty has been tied to a moratorium on underground testing. This proposal, he argued, runs contrary to the reason the United States will consider a partial test ban treaty, that is to get agreement now on those portions which are agreeable while negotiations continue on a comprehensive test ban treaty. He added that to make a partial test ban treaty contingent upon a moratorium would only revive the

issues that should be left for solution as part of a comprehensive test ban treaty.

In concluding his statements on the two draft treaties, he pointed out that neither treaty prohibited the conducting of laboratory tests nor preparatory work for testing, and he added that the United States plans to remain in readiness.⁶¹

Soviet Union Rejects the Western Draft Treaties

The initial Soviet reply to the submission of the two alternative draft treaties was expressed by the Soviet representative that "on the basis of our first impressions, these documents repeat already well known United States proposals on the question of the cessation of nuclear weapon tests." He continued that the comprehensive draft treaty, "leads one to think that it rejects completely the proposals of the neutral States." He added, "the Soviet position in relation to obligatory on-site inspections is very clear and the embodiment of this condition in the new draft treaty makes it unacceptable as a basis for agreement."

As to the partial test ban treaty, he said that it is designed to preserve the possibility of underground testing, "in other words on legalizing the nuclear weapon." He added that making underground tests permissible would

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act as a stimulant to the nuclear arms race. Therefore, he said, we must talk about the cessation of all nuclear weapon tests.

He concluded his remarks by saying,

I repeat that the Soviet Union is in favour of an early cessation of all nuclear weapon tests. If that is also the desire of the United States and the United Kingdom, why should we not accept the proposal of the eight neutral States as a basis and try to work out quickly--and that can be done--an agreement on the banning of all nuclear tests in the atmosphere, in outer space, under water and underground.⁶²

At the 76th meeting, the Soviet representative continued his analysis of the two alternative draft treaties proposed by the United States and the United Kingdom. He repeated that the new draft treaties do not reveal any change in substance from the position held by the Western Powers over the years of negotiations, that is "it still requires on-site inspection not for control or verification but for intelligence purposes." He added that the new draft treaty was not a new position but a "new dress on the old girl." He argued that a comparison of the draft treaty submitted by the Western Powers on 10 April 1961 and the latest draft treaty reveals that the Western Powers have not accepted the Eight-Nation Memorandum compromise proposals because an integral part of both treaties is obligatory on-site inspections. Consequently, he added, they have not moved toward the Eight-Nation Memorandum

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which puts forth the principle of inspection by invitation. He continued and pointed out that the last draft treaty submitted by the Western Powers was built on the premise of international control posts on the territories of States parties to the agreement and the new draft treaty in substance describes an international system of centralized observation stations with international supervisors appointed by the international commission. The Eight-Nation Memorandum he said calls for national stations for the detection of nuclear explosions. Both treaties, he continued, place the emphasis on the appointment of one person to have full authority over the international control system while the memorandum on the other hand suggests an international commission of a limited number of highly qualified scientists which would be the main link in the chain of the system. Therefore, he concluded that the Western draft treaty incorporates very little of the memorandum.

In regard to the partial test ban treaty, he said the United States representative in his statement in regard to the partial test ban treaty downgraded the importance of underground testing while on previous statements he had spelled out the military significance of such tests. He further argued that contrary to the argument of the United States a partial ban on tests would not stop

the proliferation of nuclear weapons. He agreed with the United States representative that the partial treaty would stop the radioactive pollution of the atmosphere, space and oceans. However, he added, there was a much greater danger, "that was thermo-nuclear destruction if the arms race is allowed to continue." He also rejected the partial treaty on the grounds that this would give the United States a military advantage because they had used this means of testing to perfect its improvements and modernization of the nuclear weapon. Therefore, he pointed out that if the underground tests were legalized, this would give the United States the means to continue her military development while the Soviet Union would have its hands tied.

In conclusion he said:

We propose to the Western Powers to come to an agreement to put an end to the testing of all nuclear weapons whatever may be the environment for such tests. The Soviet Union is ready to approach this question as a constructive matter, taking into account all the useful thoughts and consideration which may have been advanced in the course of the debate by various delegations.

Basing ourselves on this, we are ready to note certain differences in the nature of the proposals with regard to the banning in the various environments, taking into account the distinction that has to be drawn between tests under water, tests in outer space and in the atmosphere, and tests underground. At the same time--and I would stress the importance of this point--simultaneously we would end all testing, but with respect to nuclear tests in outer space, in the atmosphere or under water such a decision would be final in its nature; whereas with respect to underground tests such an agreement would

be only on the basis of an understanding that it would remain in force until such time as it could be replaced by a permanent solution.

To find such a permanent solution to the problem of a cessation of underground nuclear tests we can use the very sound foundation of the memorandum of the eight neutral Powers.⁶³

Non-Aligned Members Express Views

At the 76th meeting on August 29th, the Nigerian representative commenting on the United States and United Kingdom alternative draft treaties said that these treaties marked a significant advance by the West toward a test ban but that the chances for their acceptance were fair, particularly the partial test ban without inclusion of a moratorium on underground tests. He concluded that any agreement had to take into consideration the problem of underground tests; therefore, a partial test ban treaty must include a moratorium on underground tests pending an agreement on a comprehensive test ban.⁶⁴

The Brazilian representative at the 77th meeting suggested that rather than taking "painstaking efforts" to ascertain the true intentions of the Eight-Nation Memorandum, the conferees should negotiate on the partial test ban treaty proposal because it had not been discarded entirely by any delegation.⁶⁵

The Swedish representative said that the Eight-Nation Memorandum is the "only possible bridge for compromise" and asked the Nuclear Powers to give it more

It is only in the case of an understanding that it
 would be possible to have such a time as it would
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Generalized Principles of the Law

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consideration. He continued that the West and the Soviet Union appeared to be in agreement on the use of national observation posts and the need for an international commission and their differences regarding procedures for on-site inspection appear to be negotiable. In concluding, he proposed that the establishment, at least on an interim basis, the international scientific commission as proposed in the memorandum. The first task, he said, for the commission should be to examine the problems pertaining to the organization of a control system.⁶⁶

The Burmese representative proposed at the 78th session that because little reliance could be placed on an unconditional moratorium that the heads of the Nuclear Powers should:

- (1) assume personal responsibility for ensuring that no underground tests are conducted . . . until a comprehensive treaty comes into force,
- (2) pledge themselves anew to work for . . . a comprehensive treaty,
- (3) agree, following the Swedish proposal, that the international scientific commission envisaged in the Eight-Nation Memorandum be established . . .
- (4) and that their delegations will cooperate fully with this commission in working out an agreement on the complete cessation of nuclear tests.⁶⁷

At the 78th meeting, the Nigerian representative clarified his previous views on a moratorium by saying that he had merely requested that the Nuclear Powers consider the question of a moratorium on underground tests and that he by no means advanced an "unpoliced and unmonitored moratorium."⁶⁸

The Ethiopian representative suggested that in the event agreement was not reached on a nuclear weapon test ban consideration should be given to a "pledge" by the Nuclear Powers not to test after the end of the year.⁶⁹

The Mexican representative aired his views at the 800th meeting, and he said the Conference had three ways leading to a cessation of tests: first, conclusion of a treaty with the necessary guarantees prohibiting nuclear tests in all environments; second, agreement on the cessation of atmospheric, outer space and underwater testing without prejudice to continuing negotiations in regard to control over underground tests; and third, the recommendation of the time limit to end competitive nuclear tests.

He acknowledged that a treaty required reasonable guarantees, but there were no automatic guarantees which were 100 per cent dependable and that in the last analysis the best guarantee of fulfilling obligations was "national honour and good faith."

In conclusion he said that

a study of our debate makes it difficult to avoid the following conclusions:

(a) arguments produced by either party to explain or justify their respective attitudes might be valid from their respective points of view, but from the point of view of the higher interests of humanity those arguments are unacceptable and they should be set aside, because nobody can justify an indefinite continuation of nuclear weapon tests;

(b) the armaments race does not increase but reduces national security and collective security;

(c) nuclear weapon tests have neither moral nor juridical justification; and I call attention particularly to this last point--

(d) the parties have already accepted one of the obligations mentioned in the memorandum of the eight non-aligned States. Which? The obligation to collaborate with the international scientific commission submitting to it those elements, data and facilities required by it for the identification of doubtful phenomena.⁷⁰

At the 81st meeting, the representative of the United Arab Republic suggested the need to agree on the modalities of a control system and urged consideration of the recent Swedish proposal on the interim establishment of the international commission. In regards to the partial test ban treaty, he said that there is almost agreement and that each party concerned should "give a little here and a little there, in order to reach agreement."⁷¹

United States Replies to Soviet Charges About the Draft Treaties

At the final Subcommittee meeting during this period, the United States replied to the Soviet charges in reference to the two alternative draft treaties. He refuted the Soviet argument that the comprehensive draft treaty was not any different than the 18 April 1961 Western draft treaty proposal. He said that there were areas where significant change had taken place and outlined them as: first, the new treaty proposal relies on nationally manned stations as proposed by the Eight-Nation Memorandum; second, the status of the international commission has

been significantly altered, it has been expanded to include more non-aligned States, the staff has been greatly reduced, the executive officer would be more directly related to the commission and could be replaced by the commission; third, the question of obligatory on-site inspection has been substantially altered, not in respect to the principle of on-site inspection but in the reduction in the number of quota for on-site inspection and the formulation of the inspection teams has been delegated to the executive officer with the restriction that no national inspect his own country.

The United States representative continued that the Soviet representative had made many comments on the new draft treaty proposal to show that there was no change in the Western position; however, he ignored the far reaching changes and concentrated on "some rather small differences, or on areas where the 18 April 1961 treaty and the 27 August 1962 comprehensive treaty are actually the same."

Many of the issues the Soviet representative referred to, he said, the United States has been repeatedly been requesting the Soviet Union to sit down and talk about these areas of differences; however, the Soviet Union has refused.

In regards to a moratorium, he repeated previous Western arguments that the United States would continue to

work towards a comprehensive agreement if a partial test ban treaty was accepted, but the United States would not accept the obligation to refrain from underground tests without adequate and effective controls.

In a further effort to solve the Soviet fears of "espionage" by the international commission, he proposed the possibility of having the commission empanel a highly qualified body of very eminent scientists who would be chosen solely on the basis of their high scientific knowledge, who would conduct the investigations for the commission. Further, he proposed the establishment of objective criteria and procedures for the commission in such a way that each party would be obligated to allow the commission to conduct inspections, and this procedure would obviate the necessity to leave the decision to invite the commission to the individual discretion of each party to the treaty at the time.⁷²

United States Proposes Subcommittee Meetings During Recess

At the August 31st meeting, the United States representative introduced a statement by President Kennedy whereby he accepted the beginning of 1963 as "a reasonable date" for the termination of all nuclear testing. To accomplish this purpose, the statement added that negotiations be accelerated and that maximum effort be made to conclude an effective agreement by that date. However, in

1. The first of these is the fact that the United States has a long and honorable tradition of supporting the principle of self-determination of peoples. This principle is enshrined in the United Nations Charter and in the Declaration on the Granting of Independence to Colonial Countries and Peoples. The United States has consistently supported the right of peoples to determine their own destiny, and this has been a major factor in our foreign policy for many years.

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as the Agency has decided, the United States will
reconsider its position in regard to the
Agency as required by the Agency in 1951 as it
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maintain an effective position in the Agency.

relation to a moratorium, the statement said that

gentlemen's agreements and moratoria do not provide the type of guarantees that are necessary. They do not give the assurance against an abrupt renewal of testing by unilateral action. This is the lesson of the Soviet Government's tragic decision to renew testing just a year ago. Nor can such informal arrangements give any assurance against secret underground testing. That is why we must have a definite agreement with reasonable and adequate assurance. The United States cannot be a party to any renewal of false hopes which the Soviet Government shattered last September⁷³

In accordance with the President's statement, the United States representative proposed that the Subcommittee meet during the forthcoming recess proposed for the Conference in order to reach an agreement on a test ban by the beginning of the next year.⁷⁴

At the 81st meeting, the Soviet representative agreed to the proposal but declared that negotiations had to be conducted on the basis of the Soviet November 20th proposal or the Eight-Nation Memorandum.⁷⁵

However, after an exchange of views, it was decided that each delegation could resume negotiations in the Subcommittee on whatever it decided and the Subcommittee was scheduled to continue negotiations during the recess.

Summary

Following the 82nd meeting on September 7, 1962, the Conference was recessed until November 12, 1962. The recess was called to allow the delegations to take part in

the forthcoming Eighteenth General Assembly meeting of the United Nations.

This period of twenty-six plenary meetings and seven Subcommittee meetings did not see any appreciable change in the positions of the Nuclear Powers. The Soviet Union remained firm in its position and refused to negotiate on anything other than national detection systems for control of a comprehensive test ban with the acceptance of an international scientific commission as proposed by the Eight-Nation Memorandum but without defining their concept on how this body would operate. The Western position was clarified by the discussions of the new scientific data and the introduction of two draft alternative treaties. One for a comprehensive test ban with internationally supervised national detection systems, an international commission to monitor the system and the use of obligatory on-site inspection for unidentified events located by the system under a quota system--these were the provisions introduced in the two draft alternative treaties. The other proposal was for a partial treaty prohibiting testing in the atmosphere, outer space and underwater with reliance on national systems for control. The United States would not accept a moratorium on underground tests in conjunction with the partial treaty.

The Eight-Nation Memorandum submitted on 15 April

1962 remained the center of continued debate over interpretation. The proposal by the Mexican representative for a cut-off date to end all nuclear testing was accepted by both nuclear sides but with different interpretations.

The Subcommittee did agree to meet during the recess after the acceptance of the 1 January 1963 cut-off date on testing, but the debate over what should be discussed or not indicated that agreement would be difficult in the Subcommittee during the recess.

This period did see the acceptance of national detection systems for control by the West, but with international supervision; however, the Soviet Union refused to accept the principle of obligatory on-site inspection, the keystone of the Western proposals, although she did accept it by invitation. Thus, this period opened with the Conference deadlocked on the nuclear weapon test ban issue and it closed in the same status.

IV. THE THIRD PERIOD NOVEMBER 26, 1962 - DECEMBER 20, 1962

Introduction

This period commenced when the Conference reconvened on November 26, 1962, following a recess since September 7, 1962. Thirteen meetings of the Conference were held during this period.

1981 continued to be a year of continued rapid growth in the economy. The growth of the economy was maintained at a steady pace in all sectors. The growth of the economy was maintained at a steady pace in all sectors.

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This period has seen the continuation of economic growth. This period has seen the continuation of economic growth. This period has seen the continuation of economic growth.

The Subcommittee on a Treaty for the Discontinuance of Nuclear Weapon Tests actually remained in session during the Conference recess and held a total of twenty-seven meetings, nineteen during the recess.

Basically the period was spent in a search for some means to break the continued deadlock that had existed in the test ban negotiations since the Soviet Union introduced its treaty proposal on November 28, 1961, based on national detection systems for control over the detection of all nuclear explosions in all environments.

The Eight-Nation Memorandum of April 10, 1962, remained in the center of the controversy over interpretation. The introduction of a United Nations resolution which adopted the Mexican proposal for a cut-off date of January 1, 1963 for nuclear testing added another element to the dispute over interpretation of proposals.

The Soviet Union and the United States Review the Subcommittee Meetings Held During the Recess

Western critique. At the 83rd plenary meeting on November 26th, the United States representative in his initial remarks about the Subcommittee meetings during the recess said, "unfortunately" no progress was made.

The Soviet Union, he said, during the Subcommittee meetings continued to reject the very minimum amount of international arrangements for detection, location and

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inspection of seismic events that would give "reasonable and adequate assurance of compliance with a comprehensive nuclear test ban agreement." He continued that the Soviet delegate also refused to consider a partial test ban on testing in those elements which do not require international verification.

After this initial statement he added that there is cause for hope and gave three reasons why: first, there is a strong incentive to halt the arms race; second, just the fact that the Eighteen-Nation Committee exists and continues to provide a forum; third, recent events have had a sobering effect and they have also shown that the Nuclear Powers can reach agreement.

The United States representative concluded his statement by reviewing the status of the nuclear weapon test ban negotiations. First, he said, the recent General Assembly session of the United Nations gave a great deal of time and debate to the test ban issue and two resolutions were the outcome for guidance of this Conference. Second, he continued, the main obstacle to agreement remains the fundamental issue of underground tests, but he added, agreement is almost certain if the question of control and inspection is settled.⁷⁶

Soviet critique. The Soviet representative in his opening statement to the Conference on November 25th remarked

[illegible]

in regards to a partial test ban agreement,

half-measures in the question of the cessation of tests, that is such measures as would preserve the possibility of carrying out further nuclear weapon tests in any one environment, would provide no solution to the problem. [He continued,] all nuclear weapon tests, in the atmosphere, under water, underground or in outer space should be put an end to once and for all. Furthermore this problem must be solved now.

In relation to the meetings of the Subcommittee during the recess, he said that no progress was made because the Western Powers continued to hold to their old positions and, as a result, the talks remain in a deadlock. Further, he added that at the nineteen meetings of the Subcommittee during the recess,

the Western powers stubbornly continued to put forward their demand for the establishment of an international control system and compulsory inspection knowing beforehand that it is impossible to reach agreement on such a basis.

In conclusion, he said that the Western position is that agreement should be limited to tests only in the atmosphere, outer space and underwater, and they "insist on retaining their freedom of action in regard to continuing nuclear tests underground." The Soviet Union, he continued, "being anxious that the cessation of nuclear weapon tests should be real and not illusory, cannot leave the question of underground tests open." To conclude such an agreement would result in continuing and extending the nuclear arms race and in involving other States in it.⁷⁷

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1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Once a plan of action has been developed, the next step is to implement the plan. This involves carrying out the steps that have been identified in the plan and monitoring the progress of the implementation. Finally, the last step in the process is to evaluate the results of the implementation. This involves assessing the effectiveness of the plan and determining whether the problem has been solved.

Sweden Reintroduces the Proposal for an Interim Commission

At the 84th meeting on November 28th, the Swedish representative repeated a previous statement of his when he said,

would it not be worthwhile to consider now the establishment, at least on an interim basis, of the commission proposed in the Eight-Nation Memorandum, about which the Powers are in agreement, with, as a first task, the scientific examination of the question of how a control system should be organized?

He added that such a course would extend the area of agreement and thereby facilitate the reaching of a permanent test ban treaty.

He then proposed that the Nuclear Powers call in immediately a panel of scientists from different countries and to leave it to this panel to act for the time being as an interim commission. This panel would set up on a time-limited basis to study and help establish the necessary machinery for a test ban agreement, he pointed out. It would also, he continued, furnish the conference with scientific and technical information. And he proposed that a moratorium be in effect during the existence of this scientific panel.

The advantages to this approach, he remarked, were that valuable experience could be gained while negotiation continue and it will also make it easier and quicker to install a control system when agreement is reached.

Revised Statement of the Committee on the
Committee

At the 344 meeting on November 15, the Committee

reconsidered the proposed statement of the Committee

as follows:

While it is not possible to determine the exact
percentage of the total population of the United States
which is composed of the Negro population, it is
known that the Negro population is approximately 12 per
cent of the total population of the United States.
It is a well known fact that the Negro population is

the largest of any race in the United States.

and that the Negro population is the largest of any race

in the United States.

It is also known that the Negro population is the

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has the honor to acknowledge the receipt of the

report of the Committee on the Committee on the Committee

and to express its appreciation for the same.

In concluding his statement, he said, "if we do not act very soon it might be too late because we do not know how long the favorable circumstances will last which now facilitate an agreement."⁷⁸

Comments on the Swedish proposal. The United States representative, in commenting on the Swedish proposal, reaffirmed the United States position that the detection stations on various countries' territories and compulsory on-site inspection by the commission provide the most effective and objective method for both detecting and identifying seismic events. He further stated that the Swedish proposal appeared to suggest a moratorium to which the United States was opposed unless there was some means to give the commission the power to conduct on-site inspection to verify the moratorium.⁷⁹

The United Kingdom representative also commented on the Swedish proposal when he said, "regardless of whatever body is set up we must have the fullest assurance that adequate detection exists and that the information derived therefrom is properly correlated."⁸⁰

The Burmese representative endorsed the Swedish proposal and said, "the setting up of an impartial international scientific body was indispensable to a successful test ban treaty."⁸¹

At the 86th meeting of the Conference, the Soviet

in considering the statement, it will be seen that all very soon it will be the last because we do not know how long the Government will last after the Revolution is completed.¹⁷

Comments on the Russian Revolution. The United States representative, in commenting on the Russian Revolution, referred the United States people to the Russian Revolution as various mysterious transactions and mysterious results suggested by the Russian people and their activities and suggested further the same activities and their flying objects. The United States people, in their Russian Revolution, suggested the suggestion in which the United States was supposed to be the same as the United States. The United States people, in their Russian Revolution, suggested the suggestion in which the United States was supposed to be the same as the United States. The United States people, in their Russian Revolution, suggested the suggestion in which the United States was supposed to be the same as the United States.¹⁸

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representative rejected the Swedish proposal because it would sidetrack the conference from its main task of reaching agreement on a comprehensive test ban.⁸²

Western and Soviet Summary of the Progress of the Subcommittee

At the 86th meeting, the United States and the Soviet Union each made a more concise report on the progress of the Subcommittee.

Western review. The United States representative said that the Western Powers approached the Subcommittee meetings during the recess with the hope of finding a common ground with the Soviet Union in order to make some progress. The West, he explained, proposed a working arrangement to look at the operation and composition of the international commission, but the Soviet Union stated that this would have to wait until outstanding issues in principle had been agreed upon. He continued that when it was proposed to work out questions relating to the worldwide control post system, the Soviet Union said it was not necessary, because all the required posts already existed and there was no need for coordination and cooperation among the existing stations.

On the question of on-site inspection, the Soviet Union, he said, refused to provide information on what scientific basis they believed that existing systems of

representative of the United States Government. It
 would be desirable for the United States to have a
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detection were adequate to detect and identify all seismic events.

As for the Soviet position on how agreement could be reached, he remarked that they all boiled down to acceptance of the Soviet November 28, 1961 proposal. First, acceptance of the November 28th proposal for a comprehensive ban on all tests with the use of national systems for detection and identification; second, acceptance of their interpretation of the Eight-Nation Memorandum as being essentially the same as their November 28th proposal plus an international commission of unspecified powers; and third, acceptance of a ban on tests in the atmosphere, outer space and underwater and a moratorium on tests underground.

He continued that the basic issue has and still remains the problem of underground testing and its control. The West, he said, has proposed to set aside for now this issue and accept an agreement in the other environments or to settle it "on a strictly objective scientific basis." The Soviet Union he contended "purports to have the scientific basis but refuses to present any scientific evidence to support its claim" that national detection systems can control a treaty for banning nuclear tests in all environments.

He concluded by saying that the Western position is

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still "crystal clear" about the subject of an uncontrolled moratorium, "we will not enter into such an uncontrolled, uninspected moratorium arrangement again."⁸³

Soviet review. The Soviet representative in his initial remarks said that the position of each side had been narrowed considerably and are now not far apart. Consequently, he added, no great effort is needed to overcome the small distance separating the Nuclear Powers from reaching agreement.

In reference to the United Nations debate and resolutions, he said that three conclusions can be drawn: First, that all nuclear tests must be prohibited without exception; second, that it is difficult and almost impossible to reach agreement while testing is being continued; and third, there is solid and overwhelming support for the Eight-Nation Memorandum for a compromise solution to the problem of banning nuclear weapon tests.

As a compromise solution to the problems deadlocking the Subcommittee on the test ban issue proposed that the suggestion put forth by Soviet and Western scientists meeting in London that the use of automatic seismic stations which do not require the presence of foreign inspectors might be considered. He continued that the Soviet Union was prepared to accept this idea for the purpose of control.

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He reaffirmed the Soviet contention that they could not accept compulsory inspection because of national security reasons and that existing and technical improvements make the demand for inspection superfluous.⁸⁴

Western reply. The United Kingdom in replying to the Soviet statement remarked that the difference between the two sides had indeed been narrowed, but the narrowing, he said, had been done entirely by the West and "not one iota of it from the Soviet Union."

In relation to the use of automatic seismic stations he said that the conclusion of the experts was that they would be helpful in reducing the number of on-site inspections but not of eliminating them.⁸⁵

At the 87th meeting of the Conference on December 5th, the United Kingdom and the United States representatives both made statements that basically attributed an inflexible Soviet position as the reason for continued deadlock. The United States delegate went further and stated that

it appears that the Soviet Union in their actions and statements in the Conference and the Subcommittee is attempting to turn the United Nations resolution into an uncontrolled moratorium on underground tests. He added that the United States delegation believes that we may once again be greeted with a unilateral pledge on the part of the Soviet Union.⁸⁶

Debate over Automatic Seismic Stations

United States views. At the 89th meeting of the

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1. The first step is to identify the problem or goal. This involves understanding the current situation and what needs to be achieved.

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Finally, the last step in the process is to implement the plan and monitor the results. This involves putting the plan into action and tracking the progress of the solution. Once the problem has been solved, the final step is to evaluate the results and determine if the solution was effective. This involves comparing the results of the solution to the original problem and determining if the problem has been resolved.

At the time making of the application of January 1941, the United Kingdom and the United States Government had made a statement in connection with the United States Government's policy of non-interference in the internal affairs of other countries. The United States Government had stated that it was not in a position to make any statement on the subject of the United States Government's policy of non-interference in the internal affairs of other countries.

[illegible]

Conference on December 7th, the United States representative gave a formal reply to the Soviet proposal of using automatic seismic stations for control. He stated that a close review of the Soviet proposal revealed that the proposal as it now stands is that it is not to be considered as a part of an overall control system. The Soviet proposal, he continued, is that we agree in principle not only to accept some

unclear, undefined system of automatic seismic stations to monitor underground tests, without regard to where they might be located and without regard to the equipment in those stations or how they would function but, also, that the Western Powers must accept the Soviet view that no on-site inspection would be necessary in any circumstances.

This the United States representative declared the West could not accept and on the present basis, the proposal is unacceptable.

He added, however, that the West was willing to study in a scientific, objective, and impartial manner any proposal which the Soviet Union would make on automatic seismic stations. Further, he stated, there is no evidence which indicates that a system of automatic stations could replace completely or substantially a manned network of control stations or could do away with obligatory on-site inspections.⁸⁷

Soviet views. At the 90th meeting on December 12th, the Soviet Union proposed acceptance of the Soviet proposal

to consider automatic seismic stations. The Soviet Union, the Soviet representative said, would agree that these stations should be established in highly seismic areas in the Soviet Union and it was willing to allow foreign personnel to deliver and retrieve the equipment for the international center. Thus, he argued, the proposal would consist of "automatic seismic stations with certain elements of international control."⁸⁸

Additional Western comments. The United States representative welcomed the Soviet statement as meaning that the Soviet Union was ready to negotiate further on the use of automatic seismic stations. He added that the West had not rejected the idea of "black boxes" but rejected the idea that they replace the need for manned control stations and on-site inspection.⁸⁹

Summary of the Subcommittee Meetings During this Period

At the 94th meeting of the Conference on December 19th just prior to the recess of the Conference, the Nuclear Powers reviewed the progress of the Subcommittee and the outstanding issues on the nuclear weapon test ban problem.

Western review. The United States representative began his review of the test ban issue interpreting the Soviet proposal for the use of automatic seismic stations in the control system. The proposal, he argued, boiled down to Western acceptance of the automatic seismic

The United States has been very helpful in providing information regarding the activities of the Cuban government in the United States.

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The following information was obtained from the files of the
Department of the Interior, Bureau of Land Management, at
Washington, D. C., on the subject of the above-captioned
tract, and is being furnished to you for your information.
The tract is located in the State of California, and is
owned by the United States of America.

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stations but that there would be no coordination or supervision of nationally manned detection stations nor any obligatory on-site inspections.

The Western position was that a properly located and adequately built system of automatic stations might possibly be useful but there was no scientific facts or information that such a system could replace a manned station system nor would it eliminate the need for on-site inspections.

He commented further that a system of automatic seismic stations properly equipped and located might be helpful in checking on data provided by nationally manned, internationally coordinated stations. He added, however, that because of the difference in opinion on the capability of a proposed automatic seismic system, the West had proposed a meeting of qualified experts to make a scientific and technical study of the use of automatic seismic stations in a detection system. To support this Western proposal, he gave several reasons for such studies: first, it is necessary to know the technical capabilities of such a system to determine its proper scope in an overall detection and identification system; second, need to examine the equipment itself and properly analyze it under actual conditions to enable proper placement to receive maximum benefit from a system of automatic seismic stations; and

[illegible]

third, it provides another means to narrow the area of disagreement even further in the area of identification of underground tests.

To this Western proposal for a scientific study, the Soviet Union, he pointed out, has not responded but "continues to insist that we agree in principle first and then discuss the technical details."

In relation to the Soviet proposal to accept foreign personnel to deliver, place, and retrieve automatic seismic equipment under proper safeguards, he said,

this is a step forward towards solving the problem of international coordination and supervision of a detection and identification. He continued that, although, their proposal was made in reference to the placement of automatic seismic stations it could just as easily be applied to on-site inspection groups and could eliminate the Soviet fear of espionage by foreign personnel.

As to the United Nations resolution calling for the end of all tests as of 1 January 1963, he said, the Soviet interpretation that this means whether agreement is reached or not and the acceptance of an uninspected, uncontrolled moratorium is unfounded and unacceptable. The United States, he said, interprets this resolution to mean the Conference should strive to reach by 1 January 1963 agreement on an adequate and effective treaty with an effective detection and identification system. To reach this goal, he pointed out that there were two roads available: first, by reaching agreement on a comprehensive

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

It is the policy of the Department of Defense to provide information to the public in a timely and accurate manner. The Department is committed to transparency and accountability in its operations. This document contains information that is being released to the public under the provisions of the Freedom of Information Act (5 U.S.C. 552). The information is being released as it is in the possession of the Department, and it is not being edited or altered in any way. The Department is not responsible for the content of any information that is released to the public under this policy. The Department is committed to providing the public with the information that it is entitled to receive, and it is committed to ensuring that the information is accurate and reliable. The Department is committed to providing the public with the information that it is entitled to receive, and it is committed to ensuring that the information is accurate and reliable. The Department is committed to providing the public with the information that it is entitled to receive, and it is committed to ensuring that the information is accurate and reliable.

It is requested that the Bureau be kept advised of any developments in this matter.

1. The first step in the process of the development of a new product is the identification of a need or a problem. This is often done through market research, which involves gathering information about the needs and preferences of potential customers. This information is then used to develop a concept for a new product that addresses the identified need or problem.

and all cases of 12 January 1941, in which the bodies

1. The first part of the report, which is the most important, is the description of the situation in the country. This part is divided into two main sections: the first section describes the situation in the country as a whole, and the second section describes the situation in the various regions of the country. The first section is divided into three parts: the first part describes the situation in the country as a whole, the second part describes the situation in the various regions of the country, and the third part describes the situation in the various districts of the country. The second section is divided into two parts: the first part describes the situation in the various regions of the country, and the second part describes the situation in the various districts of the country. The first part of the report is the most important, and it is the most difficult to write. It is the most important because it is the first part of the report, and it is the most difficult to write because it is the most important part of the report.

THESE RESULTS WERE OBTAINED BY THE FOLLOWING METHOD:

ban on all tests with adequate and effective control; or second, if the difficulties to reaching a comprehensive ban are too great then a partial ban against tests in the areas where they can be adequately controlled and where there is already agreement should be followed.

In summary, he said,

the United States has done its level best to reach agreement with the Soviet Union on an effective treaty banning tests, but the United States is just not prepared to accept another sad experience with a unilateral uninspected arrangement on tests, nor is it prepared to accept an unworkable system of "black boxes" in its Christmas stocking.⁹⁰

Soviet review. The Soviet representative in his remarks on the course of the meetings of the Subcommittee stated that the main issue preventing agreement remains the problem of inspection. He continued that the Soviet Union considers inspections as not necessary in order to reach agreement on banning all nuclear weapon tests.

In relation to the automatic seismic station proposal, he stated,

what is to be put into the automatic stations we wish to solve in collaboration with the Western Powers, but these details can and should be agreed after we have reached agreement in principle with the United States on the use of the automatic stations as an adjunct to national detection systems without the demand for inspection.

As to technical studies, he said that the negotiations are now deadlocked and if a technical discussion was started without reaching a preliminary understanding on

the basic principles it would "inevitably" introduce another deadlock towards reaching agreement.⁹¹

Summary

The Conference recessed on December 20, 1962, with continued deadlock on banning nuclear weapon tests. This period started on November 26, 1962, after extensive United Nations debate and a mandate in the form of a General Assembly resolution that the Conference and the Nuclear Powers use everything in their power to conclude an agreement by January 1, 1963.

The majority of the time was spent in trying to find a path to break the deadlock on the test ban issue. The non-nuclear members made repeated suggestions, but none of them were accepted by the Nuclear Powers. The Soviet proposal for automatic seismic stations was the only new proposal that was introduced, but this was tied to the question of inspections. The period ended with the same deadlock as existed when it began.

Thus the Conference recessed without reaching agreement on the cut-off date proposed by the United Nations resolution.

V. THE FOURTH PERIOD FEBRUARY 12, 1963 - JUNE 21, 1963

Introduction

This period commenced on February 12, 1963, after a

The basic principle is that the individual is not to be treated as a means to the ends of others, but as an end in himself.

Summary

The Commission was established in December 1945, and its mandate was to investigate the activities of the German High Command during the war. The Commission was composed of members from the United States, Great Britain, and the Soviet Union. It was to report on the activities of the High Command and on the role of the German people in the war. The Commission's report was published in 1946.

The report is a long and detailed document, and it is not possible to summarize it fully. However, the following points are of interest: The report states that the German High Command was responsible for the planning and execution of the war. It also states that the German people were not responsible for the war, but that they were responsible for the suffering that it caused. The report also states that the German people were not responsible for the war, but that they were responsible for the suffering that it caused. The report also states that the German people were not responsible for the war, but that they were responsible for the suffering that it caused.

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recess from December 20, 1962. Fifty-two plenary sessions were held, but the Subcommittee on a Treaty for the Discontinuance of Nuclear Weapon Tests was not reconvened.

The period opened on a note of optimism following a series of private talks between the Nuclear Powers during the recess. However, even with the Soviet acceptance of the principle of on-site inspection and the use of automatic seismic stations to supplement national detection systems, agreement was not possible because of differences between the technical and political aspects of inspection. The basic positions that the sides held at the beginning of the period they still held at the end of the period.

A great deal of the discussion in the early part of the period was spent in trying to work out procedures to continue the debate on the test ban issue and also to discuss other issues of disarmament. With both sides deadlocked in their positions on the test ban, the Conference finally decided to discuss the nuclear test ban problem on Monday of each week and turn to problems of general and complete disarmaments at the other meetings.

The United States put forth comprehensive details of the technical aspects of its position on inspections, but the Soviet Union refused to discuss these details until there was agreement on principle.

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Powers in Moscow on July 15, 1963, added another optimistic note at the close of the period when the Conference recessed on June 21, 1963.

Opening Statements

United States review of the meetings held during the recess. At the 96th meeting on February 12th, the United States representative in his opening remarks stated

that there is some reason to hope that a test ban agreement may be on the way, for it does seem to us that the basic ingredient of success--a desire for agreement by both nuclear sides may now exist.

He continued that an exchange of letters between President Kennedy and Premier Khrushchev had produced a new negotiating position where the one remaining obstacle to agreement remained the details of a verification system. The system seems to be in agreement, he said, and outlined it as:

First, the system now under discussion is premised on the use of nationally owned and operated detection networks. Those national stations would submit data regularly and in a uniform manner to an international data collection centre. At the recent meetings in New York and Washington, the United States and the Soviet Union exchanged preliminary lists of seismograph stations from which the data-gathering arm of the verification system might be selected. Such selected stations in each others territory would form the basic network and the United States has given the Soviet Union a general description of the type of instruments used at each of the United States stations.

The second element of the new verification system involves the use of automatically recording seismograph stations. Such stations could supplement the

data collected by national stations and could help to a degree in detecting, locating and identifying seismic events, thus improving the capabilities of the verification system. At private meetings which took place during the recess, the United States suggested ten sites in United States territory where automatic recorder might be located. The United States delegation furnished information on the average seismic noise levels at those sites. The Soviet Union accepted one of the United States sites declined the other nine, and requested two others in their place. The United States said that it did not object to the two alternative sites, and gave the Soviet Union noise level data for those two sites as well. The United States specified ten general areas within the Soviet territory where automatic recorders might well be located. The United States asked the Soviet Union to designate specific sites for automatic stations within those ten areas, to be recommended by the Soviet government on the basis of its knowledge of the noise level and other local factors. The areas specified by the United States included the areas of the three sites suggested by the Soviet Union but the United States did not accept the Soviet contention that there need only be three such automatic stations.

Later on, in private talks the United States suggested that its requirement might be met with seven automatic stations if satisfactory assurances could be obtained concerning the characteristics of Soviet national seismography network. There was no reciprocal response by the Soviet Union, which continued to state that the three sites specified in Chairman Khrushchev's letter of 7 January would be sufficient and that no additional sites could be contemplated. Noise level data for the three Soviet suggested sites were produced by the Soviet Union at the last session of the private talks.

The third element of the new verification system involves on-site inspections. The on-site inspection quota concept, first officially advanced by the Soviet Government in 1959 and then repudiated by it in 1961 has again been accepted by the Soviet Government.

The United States representative summarized the new status of a nuclear weapons test ban agreement by saying that "we have a new premise for negotiation, we are now

talking about a verification system based on national manned detection stations, automatic seismic stations and a quota of on-site inspections."

He concluded his statement by saying that

we agree with the Soviet Union that the conclusion of a test ban treaty is a political act and, indeed, an act of the highest importance. We reject the Soviet contention, however, that the provisions for the control system can also be decided solely on a political basis, without regard for objective scientific considerations. We must therefore, continue to be guided by our best understanding of the current technical situation, and this will inevitably prescribe for us the outer bounds of any agreement.⁹²

Soviet statement. The Soviet representative in his opening statement spent very little on the nuclear test ban issue. He said that the Soviet proposal to accept on-site inspection was truly a concession to the West which had repeatedly stated that they were ready to conclude an agreement if the Soviet Union accepted on-site inspection. He added, the Soviet Union still considers on-site inspection as unnecessary but "we are willing to give each side two or three to satisfy the fears and desires of the West."⁹³

United Arab Republic Proposal

At the 99th meeting of the Conference on February 18th, the United Arab Republic representative proposed three methods of proceeding as alternative means in an attempt to break the present deadlock in the nuclear

weapons test ban negotiations. First, that the nuclear parties might submit new draft test ban treaties incorporating their ideas and formulations. Second, suggested that working papers might be produced setting out the background to or the outline of the Nuclear Powers thinking on the various problems in the test ban question. Third, if agreement on a quota number of inspection could not be reached immediately, for the time being this question could be put aside and the Nuclear Powers could proceed with the discussion of other pertinent and relevant problems.⁹⁴

On the 20th of February at the 100th meeting, the United States representative stated in reference to the representative of the United Arab Republic's proposal for alternative procedures that the United States would agree to any one of the suggested procedures that were acceptable to the Soviet Union.⁹⁵

The Soviet representative rejected the proposal on procedures outlined by the United Arab Republic by saying,

flexibility, in our opinion should help towards finding ways to solving outstanding issues as quickly as possible, but if one takes flexibility to mean, and calls flexibility, an approach which leads the Committee away from solving the main issues, then we are opposed to such flexibility, we are opposed to such an approach.⁹⁶

Deadlock Continues

United States reviews status of the negotiations.

At the 1004 meeting on February 204, the United States representative commenting on the progress of the Conference said that, although there appears to be a narrowing between the two positions, there also appears to be a deepening gulf which makes it more difficult to bridge.

He then outlined the latest steps that the West has taken to reach agreement. He described them as:

(a) reduced substantially their requirements on an annual quota on on-site inspections.

(b) agreed to remove their previous requirement that nationally manned control posts should be subject to international supervision and control.

(c) agreed, provided the Soviet Union will supply data concerning the capability of its own national stations and will reaffirm its agreement of last summer to build new national stations where these are needed, to consider reducing to seven the number of automatic stations, they believed will be needed on Soviet territory.

(d) agreed to accept reasonable figures on the extent of the area subject to inspection.

(e) indicated their willingness to reach an accommodation with the Soviet Union regarding particularly sensitive military installations which might be located in an area to be inspected.

Soviet views on the status of the negotiations.

The Soviet representative attacked the Western Powers for retreating from a position upon which they declared that agreement could be reached; that is, Soviet acceptance of the principle of on-site inspection. He added that previous statements of the Western representatives asking only that the Soviet Union accept the position they repudiated with the November 28, 1961, proposal implied

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Western acceptance of the Soviet quota for on-site inspections of two to three per year. He accused the West of now naming eight to ten on-site inspections and couching this in the form of an ultimatum.

He closed his statement by saying that

if their purpose is to protract the negotiations, if their purpose is to take advantage of the Soviet Union's constructive position in order to bargain for the greatest possible number of inspections, then we can straight out that nothing will come of this except delay.⁹⁸

Soviet Union clarifies position. At the 101st meeting, the Soviet representative outlined the Soviet position in relation to the international elements of the proposed treaty. He stated them as:

(1) Two to three on-site inspections a year on the territory of each nuclear power.

(2) The installation of three automatic seismic stations on the territory of each nuclear power. The stations may also be situated on the territories of non-nuclear States, naturally with the consent of their governments.

(3) The establishment of an international commission of scientists, as proposed by the eight non-aligned States members of the Eighteen-Nation Committee.

He repeated the Soviet view that on-site inspections are not necessary and that Soviet acceptance of this principle was done solely to facilitate agreement.

In regard to automatic seismic stations these, too, he said, were not necessary but were again put forward by the Soviet Union in an effort to reach agreement. He declared that the Soviet Union still contended that

national detection and identifying systems were scientifically capable of detecting and identifying all nuclear explosions.

In reference to the discussion of details and side issues, he said that the Soviet Union is opposed to such procedures because "if the basic issues are not settled it is impossible to settle them by discussion of other related issues."

The Soviet representative stated in conclusion that

the Soviet Union remains firm in its conviction that despite the complication created by the actions of the United States at the present time there are still possibilities for reaching without delay an honest and fair agreement that would satisfy all parties.

The keynotes of the Soviet position he repeated were: first, national means alone ensure effective control over all types of tests; second, the number of on-site inspections and automatic seismic stations is not a subject for bargaining; and third, the guarantee of success of the negotiations lies in solving the basic issues.²²

United States comments. The United States representative said that the Soviet position as it stands boils down to, that the number of on-site inspections is not negotiable and that acceptance of this number by the United States is necessary before anything else is discussed.

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the West, he said that there was a possibility of a misunderstanding but that in the letter that President Kennedy sent to Premier Khrushchev on December 28, 1962, he clearly stated the United States position as:

With respect to the number of on-site inspections there appears to have been some misunderstanding. Your impression seems to be that Ambassador Dean told Deputy Kuzentsov that the United States might be prepared to accept an annual number of on-site inspections between two and four. Ambassador Dean advises me that the only number which he mentioned in his discussions with Deputy Minister Kuzentsov was a number between eight and ten. This represented a substantial decrease in the request of the United States as we had previously been insisting upon a number between 12-20. I had hoped that the Soviet Union would match this motion on the part of the United States by an equivalent motion in the figure of two to three on-site inspections which it had some-time ago indicated it might allow.

The United States representative also added that subsequent to this letter private talks were held in New York and Washington so there would not be any further misunderstanding about the number of inspections desired by the United States.¹⁰⁰

Soviet Counter-reply. The Soviet representative in replying to the United States representative's statement simply stated that in a conversation that he had with Ambassador Dean on 30 or 31 October 1962, Mr. Dean said that the main point about which we differed was underground tests. The Soviet representative then quoted Mr. Dean as saying, "If the Soviet Union were to agree to a small number, say two to four inspections, I assure you, that there

will be no more differences between us." The Soviet representative added that "of course, it was only an unofficial figure." However, he continued, further unofficial statements including those made to Professor Federov of the Soviet Union by Professor Wiesner of the United States, where the figure of two to three inspections was also mentioned and the official statements of the United Kingdom representative in this Conference also confirmed this Western position. He concluded that "the issue has been clarified and that it should not serve as an obstacle to our negotiations."¹⁰¹

United States Proposes Smaller Number of Inspections

At the 102nd meeting of the Conference on February 25th, the United States representative indicated that in private talks he had with the Soviet representative he explained the United States position on a number of the features of the inspection system. Also, he said the United States could accept an annual quota of seven on-site inspections if the Soviet Union was willing to accept the verification system envisaged by the United States.¹⁰²

Views on Automatic Seismic Systems Aired

At the 103rd meeting on February 27th, the Soviet representative set forth the Soviet position on the use of automatic seismic stations. He said that the Soviet Union

sees the purpose of the stations is to verify the proper functioning of national networks for detection and identification of nuclear explosions. In order to fulfill this purpose, he explained, there is no need for a large number of stations. Soviet scientists, he continued, consider that more than three stations on Soviet territory would do "absolutely nothing more to verify the proper functioning of national networks."¹⁰³

At the 108th meeting on March 13th, the United States representative outlined the United States views on the role of the automatic seismic stations.

He stated that the Western Powers envisaged that the Nuclear Powers would supply sealed recorders and certain sealed instruments for automatic stations. The stations, he continued, would be built according to agreed specifications by the host country, and the host country would assume certain maintenance responsibilities in conjunction with the stations. Data, he explained, would be picked up and the instruments maintained and checked by personnel from the other side and from the international commission, a maximum of eight times yearly. He continued that duplicate recorders outside the stations would record duplicate data and host country personnel would pick up and transmit this data to the international commission for its own use and for transmission to the other side.

that the purpose of the station is to verify the proper
 functioning of national stations for detection and identifi-
 cation of various agencies. In order to verify this
 purpose, it is required, there is no need for a large number
 of stations. Only a few stations are required, together
 that may have been placed around the United States and
 elsewhere, being able to verify the proper functioning
 of national stations.
 At the time of the station, the United States
 representative could not find the United States and the
 other of the numerous national stations.
 He stated that the station would be required that
 the United States will verify the proper functioning and con-
 tain the national stations for national stations. The
 station, he continued, will be able to verify the proper
 functioning of the national stations, and the other country
 would have certain national stations in con-
 junction with the station. He explained, which is
 placed on the national stations and checked by
 personnel from the other side and then the national
 stations, a station is able to verify. He continued
 that certain national stations for stations would be
 placed and that certain personnel would be able to
 and through this to the international stations to
 the new use and the international stations.

The United States, he said in summary, has proposed that seven such stations be built and operated in the Soviet Union.¹⁰⁴

Debate on Procedures Continues

United States outlines views on procedures. At the 104th meeting, the United States representative outlined the United States on procedures which the Conference should follow to reach an agreement on the nuclear weapons test ban issue. He stated that the Western position was, "that we wish to discuss concurrently with the question of the annual quota of on-site inspections, the question of when, where, how and by whom inspections are to be carried out." This procedure, he argued, would make it easier to find a mutually acceptable number of inspections.

In regard to the Soviet claim of the ability of national systems to detect and identify all nuclear explosions, he stated that this is scientifically unfounded, and called on the Soviet Union to produce the scientific proof to support their claim.

In conclusion, he said that Soviet answers to the questions on criteria to locate events; on how will they be selected for inspection within the quota; on the size and shape of the inspection area; on how the inspection will be carried out; and the composition of the inspection

The United States, he said in summary, has proposed that seven such vessels be built and operated in the Soviet Union.

United States Official Says No Agreement

United States Official Says No Agreement, he said in summary, the United States representative said that the United States is prepared to discuss the construction of the Soviet fleet as part of an agreement on the Soviet nuclear test ban issue. He stated that the Soviet position was that we shall discuss construction with the question of the annual limit of Soviet test-bans. He stated to say, "There are no other limitations to be agreed on." This position, he argued, would make it easier to find a mutually acceptable number of submarines.

He turned to the Soviet claim of the ability to construct vessels to build and identify all nuclear submarines, he stated that this is substantially exaggerated, and called on the Soviet Union to provide the scientific means to support their claim.

In conclusion, he said that Soviet answers to the questions he raised in his speech would be now all right he believed for discussion within the Soviet Union and that the stages of the negotiation must be the inspection will be carried out and the completion of the inspection

are necessary because they have a direct relation to the meaningfulness of any inspection quota.¹⁰⁵

Soviet views. The Soviet representative rejected the United States proposal for consideration of related or technical issues and repeated former arguments that to discuss administrative or technical questions without agreement on the main question "we would need not only days but many weeks and months, perhaps even years, of technical discussion."

In conclusion, he stated that the only path to agreement is to agree on the comprehensive conditions which the Soviet Union has put forth because they are an acceptance of "Western proposals in their entirety."¹⁰⁶

Western views of Soviet stand on technical issues.

On March 6th, the United States representative, commenting on the Soviet rejection of the proposal to discuss the related technical details of the inspection issue, denied that they would lead to further deadlock and delay. He continued that the United States could not view the one item of on-site inspection quota in complete isolation from all the other factors relevant to the issues. He explained that these factors will determine the relevancy of the number selected of its adequacy in the system of verifying observance of the treaty.

In conclusion, he said, "frankly, we are now somewhat

at a loss about how to proceed on this question if our negotiating partners refuse to discuss most of the unresolved questions and post an ultimatum on the one issue which they will discuss."¹⁰⁷

Soviet counter-reply. The Soviet representative simply stated that the Soviet Union was not opposed to discussing the technical issues at once

just as soon as we see that the United States is willing to reach agreement on the basis of the compromise proposals for a quota of two to three inspections and the number of automatic seismic stations.¹⁰⁸

Views of the Eight Non-Aligned Members

The Mexican representative summarized the position of the eight non-aligned members of the Committee at the 1090 meeting on March 15th.

He began his statement by saying

the negotiation of a treaty when the sides concerned fear and distrust each other and when a struggle for prestige is involved, when each attributes to the other secret and malicious intentions, is a task requiring great patience and immense tenacity.

He added, only the clear realization that a fundamental and common interest which transcends all differences is at stake can persistence in this task be possible.

This, he contended, is the political climate in which the Conference finds itself, and such are the circumstances in which an attempt to negotiate a nuclear weapons test ban is being made.

He accused the Nuclear Powers of sincerely desiring an

as a fact about how it passed in this country it was
 regarding; perhaps there is a chance that it was
 about possible and that in addition on the one hand
 when they will discuss it.

British representative. The British representative
 simply stated that the British Union was not opposed to dis-
 cussing the political issues at any

time as long as we were clear that Britain is
 willing to reach agreement on the basis of the
 fundamental principles for a peace of law in the
 international and the conduct of domestic affairs.

Views of the British Representative

The British representative submitted the following
 the right to participate in the Committee of the 1948
 meeting in Paris.

He began his statement by saying

the organization of a treaty when the time comes
 that the British Union will be a party to the
 process is involved, and that it is not
 other treaty and political relations, in a way
 that the British Union will be a party to the
 the treaty, only the time involved that a treaty
 mental and moral issues which are all dis-
 tinct from the political issues in this case
 be possible.

This, he continued, is the political issue in which the
 Conference must first, and only the second, is
 which is subject to the British Union's last but
 is being made.

He closed his British Union's statement by

agreement but this desire was "feeble, weak and incomplete," a desire he said "subject to so many conditions, promises and provisos that it lacks any creative power."

He continued that the distance that separates the Nuclear Powers from agreement does not depend and is not measured by the difference between the number of inspections. The distance, he said, is a question of will, the willingness to negotiate all controversial points. He continued,

A solution depends on the evaluation which each side makes of, and the importance it attaches to, the urgent settlement of these problems, and the political appraisal, right or wrong, which it makes of the consequences of failure.

He stated further that "whether we admit it or not, whether we like it or not, the cessation of nuclear tests is the basis and a prerequisite for any progress in the various aspects of general disarmament."

To show that this was the sentiment of the non-aligned members, he quoted statements of the other non-aligned representatives supporting this position.

The Burmese representative said at the 105th meeting, "first things must come first. And the cessation of nuclear tests comes first"

The Swedish representative also stated at the 100th meeting, "My delegation also fully endorses the view that the conference must concentrate its immediate efforts on the test ban issue."

The Indian representative said, "We are here to achieve agreements on general and complete disarmament But there is a logic of events; and the logic of events at this moment is such that it gives priority to the question of a test ban."

The Ethiopian representative stated, "that his delegation . . . associates itself with the determination, widely expressed, to make headway in the task entrusted to this Committee: First, by solving the remaining problems that divide the Nuclear Powers on the question of a test ban treaty;".

The Brazilian representative said at the 103rd meeting that "Even had we desired to give priority in our discussions to other important problems, it would have been difficult for the Conference to direct its interests temporarily from the questions of tests"

At the 98th meeting the representative of Nigeria had this to say, "My delegation has at all times maintained that it is pointless talking about disarmament unless an effective stop is put to the perfection of these diabolical weapons of mass annihilation and naked aggression against humanity."

And finally, the representative of the United Arab Republic said at the 99th meeting that "I feel it my duty, however, to state frankly that our study of disarmament problems in the absence of the long cherished and now feasible test ban agreement, or at least in the absence of favourable signs for its solution, will remain, to say the least, largely academic."

The Mexican representative continued and accused the Nuclear Powers of not giving adequate consideration to the views and proposals submitted by the eight non-aligned members of the Conference.

He then proposed, for the time being, a provisional agreement to suspend underground tests, which will permit banning of tests in the three environments where no international control is required since the national means are sufficient to identify "explosions." However, he added, this provisional agreement would not be an uncontrolled moratorium "as the principle of on-site inspection has been accepted." This agreement, he continued, would enable

the setting into motion the complicated machinery of the international commission as proposed by the Eight-Nation Memorandum. Further, he said, this agreement could be established for a definite time limit.

In conclusion, he summarized, the position of the eight non-aligned members as desiring that all possible ways to reach an agreement be explored; but if a comprehensive and definite treaty cannot be attained in a short time, then the possibilities of a provisional agreement should be considered.¹⁰⁹

Soviet comments. The Soviet representative in his comments on the position of the non-aligned said that the Soviet Union was in complete agreement with the urgency and desires of the world that an early agreement be reached, but the inflexible United States position prevents the reaching of early agreement.¹¹⁰

United States comments. The United States representative denied the Soviet charge of inflexibility and charged that it was the Soviet Union because of its failure to give its views on necessary related issues that is preventing progress in the negotiations.¹¹¹

Debate Over On-Site Inspections and Control

On April 1st, the United States representative at the 116th meeting summarized the United States position in relation to on-site inspections as follows:

The setting into motion the suggested machinery of the International Commission is suggested by the following communication. Further, he said, this agreement would be established for a definite time limit.

It was suggested, the speaker said, that the position of the eight non-aligned members as decided upon at the meeting of the Council of Ministers be maintained for the time being. It was also suggested that the position of the Council of Ministers be maintained for the time being. It was also suggested that the position of the Council of Ministers be maintained for the time being.

Further comments. The Council of Ministers in its comments on the position of the non-aligned members and the Council of Ministers in its comments on the position of the non-aligned members. The Council of Ministers in its comments on the position of the non-aligned members. The Council of Ministers in its comments on the position of the non-aligned members.

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First, we believe that each nuclear side should designate the events it wishes to inspect in the territory of the other, submitting seismic data to locate the event and indicating that it cannot be identified as an earthquake according to agreed criteria.

Second, it will be necessary to arrive at agreement on the scientific criteria which would be used to determine whether an event had been located and could not be identified as natural in origin. Past negotiations with the Soviet Union resulted in considerable agreement in that area, and we ask the Soviet representative to reaffirm the points of agreement reached earlier and to work out understandings on the points not previously agreed upon.

Third, we believe that after the country in whose territory a designated event has taken place has had an opportunity to present additional data concerning the event, and there has been an opportunity to consider the data obtained from the automatic stations, the other nuclear side should make the decision whether to select the event for on-site inspection within the quota of inspections.

Fourth, we have proposed that the area to be inspected be an ellipse with the semi-major axis of not more than 15 kilometres and an area of not more than 500 square kilometres.

Fifth, we have proposed that certain important functions of inspection teams be performed by technical experts from the nuclear side in order to maximise the deterrent and confidence building effect of inspection. In addition, we have outlined what operations the team might actually perform within the inspection area.

Sixth, we have proposed various safeguards for the security of the host country including exclusion of sensitive defense installations from the inspection area and provisions to ensure that members of inspection teams or foreign personnel visiting unmanned seismic stations do not have the opportunity to engage in improper activities.

Seventh, we have indicated that a discussion of all these points, not in minute detail but in broad outline, will be of assistance in arriving at a parallel agreement on another main issue; the actual number of on-site inspections.¹¹²

Soviet Views on the Control Organization. Also, at

the 116th meeting on April 1st the Soviet representative

summarized the current status of the negotiations and the Soviet concept of the control organization.

He stated that the actual situation is characterized by the fact that the positions of the two sides have drawn closer together. First, he said, by the admission of the United States "that national systems are adequate for control over agreement." This, he argued, is supported by the fact that the United States will accept agreement on prohibition of tests in the atmosphere, outer space and underwater. In regards to underground explosions, he added, this problem could have been solved the same way. However, he said, the United States put forward demands for inspection of suspicious seismic events. To facilitate agreement, the Soviet representative declared, the Soviet Union agreed to two to three inspections per year although they are not necessary. However, the Soviet concession to the United States, he remarked, has not been accepted, and the deadlock continues.

As to the control organization, he said, it now contains eight components:

- (1) The national observation networks of the Nuclear Powers.
- (2) The national observation networks of other non-nuclear Powers, that is socialist countries and countries forming part of the Western military blocs.
- (3) The national networks of the non-aligned countries.
- (4) The network of United States seismic stations scattered over foreign countries, mainly around the boundaries of the Soviet Union.

(5) The installation of three seismic stations each on the territory of the Soviet Union and the territory of the United States.

(6) The installation of seismic stations on the territory of countries adjacent to the Soviet Union and the United States.

(7) An international centre for collecting and processing data received from national observation systems and automatic seismic stations.

(8) An agreement on two to three on-site inspections a year on the territory of the nuclear powers.

The Soviet representative continued that the control system "taken as a whole, is sufficiently many sided and reliable to ensure confidence that a nuclear test ban treaty is being complied with."

In regards to the United States insistence that discussion of technical details and its exposition of its views on this aspect, the Soviet representative said, "we shall not go along that path and shall continue to insist on the solution of the question of the inspection quote."¹¹³

United States Analysis of the Soviet Position. At the 119th meeting of the Conference on April 28, the United States representative analysed the Soviet position and their arguments to support it. He said that the Soviet representative had followed three major lines of argument in the support of the Soviet position. These he outlined as: first, sought to defend the procedural stand on the basis that "the West wished to avoid agreement by engaging the Conference in what he frequently termed as a morass of technical details"; second, he has alleged that the West

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actually proposed the numbers upon which the Soviet Union now insists "we must agree if there is to be a nuclear test ban treaty"; and third, the Soviet representative and his allies have dredged up numerous misrepresentations of previous Western positions on the technical and scientific basis for on-site inspection, to seek to undercut the importance of scientific factors in the question of on-site inspections.

The United States representative continued that the Soviet maneuvers had failed because of several factors: first, they have not shown what they have sought to show, that the Western position ignored the scientific and technical factors which make it possible to form a realistic judgment about the size of the quota of on-site inspections and the effectiveness of such a quota; second, their extensive quotation from Western scientific sources gave credence to the Western position that there will be a number of unidentified events which can be identified only by on-site inspections; and third, they have not produced any new Soviet scientific data to support their case.

The United States representative in concluding his statement asked the Soviet Union to review its own position to see if there is not some "small flexibility which we in the West have shown."¹¹⁴

...the ...

The United States Department of State has been informed that the Soviet Government has decided to withdraw its troops from Cuba.

the first time since 1911.

Soviet Union defends its position. The Soviet representative in replying to the United States representative's analysis of the Soviet position and argumentation simply stated that the statement had not disproved the Soviet position. He added that it only managed to refute the statements of prominent scientists and officials in the United States. He repeated his previous arguments that the only course to follow was to settle the main issue and this had been greatly aided by the Soviet compromise proposals.¹¹⁵

Soviet analysis of the United States position. At the 126th meeting of the Conference on April 29th, the Soviet representative summarized the Soviet interpretation of the United States position. He summarized it as:

Having admitted the effectiveness of national means of control in regard to underground nuclear explosions, the United States lapsed into an obvious inconsistency in its position, an inconsistency which has in fact led our negotiations on this question once more again into an impasse. The point is that, having recognized the effectiveness of national systems of control in regard to underground nuclear explosions, the United States ought to have abandoned completely all claims in respect of on-site inspections. At the present time the demand for on-site inspections is untenable and unnecessary from the standpoint of control.¹¹⁶

United States defense of its position. At the 131st meeting on May 13th, the United States defended the United States position. He said the statement by the Soviet representative lead to the following conclusions: first, the West must agree with the Soviet position or the

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conference was just a "waste of time"; second, "the Soviet representative appears to be laying the foundation for another grand retreat along the lines of the last grand retreat of the Soviet Union from the principle of on-site inspection on November 26, 1961"; and third, the failure of the Soviet Union to spell out the arrangements under which it would accept inspections raises "real doubts about whether the Soviet Union has re-accepted the principle of on-site inspection."

In conclusion, the United States representative said,

Unfortunately, the Soviet representative seems intent on diverting our attention from our main effort, which should be to discuss and agree upon the main portions of a treaty which would ensure the effective cessation of nuclear weapon testing. He has used arguments which add up to an ultimatum, and then attempted to place the burden for lack of progress on the West. He has claimed that his positions are purely political, but he has tried to distort the statement of eminent Western scientists in order to somehow technically to prove his case. In each of those instances he has, of course, tried to divert the attention of the Conference from the weakest part of the Soviet position, which is the absolute lack of flexibility shown here by the Soviet Union and complete failure of the Soviet Union to put forward concrete positions on most of the outstanding issues of a nuclear test ban treaty.¹¹

Soviet Union reaffirms the Soviet position. At the

145th meeting on June 17th, the Soviet representative continued to argue the Soviet case that national systems alone are capable of detecting nuclear explosions and there is no need for international control and on-site inspection.

He repeated the pledge of the Soviet Union that she would faithfully comply with its obligation not to test after agreement and that all inspections teams would conclude after inspection of an event in the Soviet Union would be "that an earthquake had occurred."

He continued to argue that the demand for inspection by the Western Powers was not based on scientific fact but was just a desire to gather intelligence information within the Soviet Union.

He further accused the West of replacing the question of cessation of nuclear weapon tests with the question of inspection.

In conclusion he said,

an agreement on the prohibition of all nuclear weapon tests forever can be signed without delay. Control over compliance with this agreement can be fully ensured, by national means for the detecting of underground nuclear explosions. In addition a limited number of automatic seismic stations can be used. All this represents a reliable guarantee for the purpose of discovering any possible attempt to violate an agreement on the prohibition of nuclear weapon tests. Here we have the basis which enables us to conclude an agreement immediately. We are ready to sign such an agreement. It is now up to the Western Powers.¹¹⁸

African Members Submit Memorandum on the Test Ban Issue

At the 142nd meeting on June 10th, the representatives of Ethiopia, Nigeria, and the United Arab Republic introduced a joint memorandum on the cessation of nuclear

weapon tests. This memorandum put forth the following suggestions and considerations for the Nuclear Powers:

. . . that direct contacts between the nuclear Powers, for example on the Foreign Ministers level, and possibly direct communications and contacts between the Heads of the Nuclear States and Governments, may prove of great value in reaching a quick and adequate solution of the problem.

. . . Various non-aligned delegations to our Committee, during the last three months produced many valuable ideas and thoughts which are well-known to the nuclear Powers, and which aimed at breaking the deadlock in the Geneva test-ban negotiations about the number of inspections as well as about the method of discussing the quota figures in relation to the study of the modalities of inspections. The three African delegations earnestly appeal to the nuclear Powers to give attention to those non-aligned ideas and thoughts as well as to their continued attempts at finding practical, honourable and equitable compromises, which, in the last analysis, may prove to be good and lasting solutions to the test ban problem.

. . . Chairman Khrushchev and President Kennedy's exchange of letters in December and January on the cessation of tests has given proof of the existence, on both sides, of a welcome spirit of constructive compromise and mutual accommodation and above all, of courage and goodwill.

. . . It may very well be that science may, in the future, show beyond doubt that on-site inspections may no longer be needed to identify suspicious seismic events or to adequately control a test ban treaty. For the time being, however, the three African delegations recognize that three, four or so, yearly truly effective inspections may be needed to dispel mutual suspicions, to help build up confidence between the nuclear Powers, and no less importantly, to facilitate their reaching a practical political settlement.

. . . After having maintained that there was no need for any obligatory inspections, Mr. Khrushchev's offer last December of two or three on-site inspections must therefore be taken as a sign of moral courage and good faith. In a like manner, the current British-American demarches at Moscow, and their offer of the possibility of further compromise, should be encouraged and taken as a sign of political courage and goodwill.

without regard to this document and for the following:

Weyersbach and Griesbach for the Berlin Forest

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Source: The author's survey of the foreign literature.

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the fact of the matter is that the only way to get a better idea of what is going on in the world is to go out and see it for yourself.

...of the problem.

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the nuclear power, and which stand at present the

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The number of infections will be about 100,000 in 1990, and the number of deaths will be about 10,000.

Study of the Modelling of Hydrodynamic

ATLANTA, Ga., Sept. 10 (AP) —

Authors to give attention to lettering assignments

Syngrapha basileana, comb. sp. n. (Fig. 17) [Syngrapha basileana sp. nov.]

(Continued from page 60)

He got out feeling extremely in the dark and very

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and all patients are advised to avoid alcohol and grapefruit juice while taking this medication.

of the same kind as the one in the previous section, but with the addition of a new variable, x , which is the number of times the word "the" appears in the sentence. This variable is not in the original set of variables, but it is a function of the original variables, and it is a linear function. The new set of variables is $\{x, y, z, w, v\}$, and the new set of constraints is $\{x + y + z + w + v = 1, x \geq 0, y \geq 0, z \geq 0, w \geq 0, v \geq 0\}$. The new set of constraints is a linear constraint, and the new set of variables is a linear variable. The new set of constraints is a linear constraint, and the new set of variables is a linear variable.

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Further, the present study was limited by the use of a self-report measure of social support. Future research should use a more objective measure of social support, such as a network analysis or a direct observation of social interactions.

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. . . The three African delegations are convinced that they speak not only for their own peoples and all the African peoples, but for the whole world, when they urgently appeal to the nuclear Powers to give more proof of a much needed sense of practicality and of a necessary spirit of constructive compromise and goodwill. The world will hail and appreciate any show of compromise as evidence of great moral courage, political acumen and love for peace. On the other hand, the world cannot but consider their failure to compromise over the last few remaining differences as unwillingness on their part to end nuclear testing and the nuclear armaments race, essential conditions for any constructive and realistic discussion of general and complete disarmament.

. . . Since there is general agreement, however, that the number of on-site inspections is less relevant than the terms of the modalities or conditions for the adequate and effective conduct of such on-site inspections, the three delegations therefore exhort the nuclear Powers to rise above quarrelling on an insignificant difference of one or two inspections and to accept a reasonable compromise-quota of inspections contingent upon adequate and effective modalities on inspection.

. . . Agreement on the latter should be sought inter alia in these illustrative areas:

(a) The location of the epicentre of the seismic event;

(b) Criteria for the eligibility of the seismic event for inspection;

(c) Composition of the International Scientific Committee and its role in the establishment of the criteria and the supervising of their proper application;

(d) Agreement on the initiation of inspection according to agreed criteria and to the data submitted to the International Committee;

(e) The composition of the inspection teams in such a way as to obviate self-inspection and to ensure the effectiveness and adequacy of the visit.

(f) Agreement on the criteria and relevant details of the actual conducting of the inspection;

(g) Agreement on the shape and size of the inspection area;

(h) Safeguards against abuse and against the utilization of such facilities and inspection personnel in any manner that might be extraneous to the purpose of identifying the event concerned or that might endanger the security of the receiving State.119

Announcement of Moscow Talks

At the 143rd meeting of the Conference on June 12th, the Indian representative in his capacity as Chairman introduced the statement of President Kennedy which he made at The American University on June 10th in Washington, D. C. where he said,

. . . . Chairman Khrushchev, Prime Minister Macmillan and I have agreed that high level discussions will shortly begin in Moscow looking toward early agreement on a comprehensive test ban treaty. Our hopes must be tempered with the caution of history but with our hopes go the hopes of mankind.¹²⁰

The Indian representative added that this agreement between the President of the United States, the Chairman of the Council of Ministers of the Soviet Union and the Prime Minister of the United Kingdom, "shows their joint determination and will to reach agreement on the test ban issue - an agreement which has been under consideration for five years at Geneva."¹²¹

The United States representative commented further on President Kennedy's speech in reference to the test ban issue; he quoted the President as saying, "a fresh start is badly needed." He continued,

not only would this first step measure mark a turning point in the upward spiral of the arms race, but it would also be a measure to begin to meet head-on the problem of the proliferation of nuclear weapons. In addition, an effective nuclear test ban would also end whatever harmful effects there may be from the radioactive fallout resulting from nuclear testing.

The United States representative continued that the

At the 1961 meeting at the Conference on the
the United States representative in his capacity as Chairman of
Programs the statement of the United States representative which he made
of the American University on June 10 in Washington, D. C.

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Finally, the last step in the process is to implement the plan and monitor the results. This involves putting the plan into action and tracking the progress of the solution. Once the problem has been solved, the final step is to evaluate the results and determine if the solution was effective. This involves comparing the results of the solution to the original problem and determining if the problem has been solved. If the problem has not been solved, the process may need to be repeated.

The Indian representative would have this statement before the President of the United States, the Chairman of the Council of Ministers of the United States and the Prime Minister of the United Kingdom, and will be sent to the Secretary of State and the Secretary of Defense.

The United States government has been very helpful in the past in the treatment of the Japanese in the United States. It has been very helpful in the past in the treatment of the Japanese in the United States. It has been very helpful in the past in the treatment of the Japanese in the United States.

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Finally, the last step in the process is to implement the plan and monitor the results. This involves putting the plan into action and tracking the progress of the solution. Once the problem has been solved, the final step is to evaluate the results and determine if the solution was effective. This involves comparing the results of the solution to the original problem and determining if the problem has been solved. If the problem has not been solved, the process may need to be repeated.

United States President in his speech had also pointed out two steps that had been taken towards ensuring renewed efforts to reach agreement. First, that the United States would not conduct tests in the atmosphere if other States do not do so. "We will not be the first to resume," he quoted President Kennedy as saying. Secondly, the United States announced that it had agreed with the Soviet Union and the United Kingdom to hold high level talks in Moscow to work towards reaching final agreement on a comprehensive test ban agreement. Thus, he concluded, the United States is taking steps to assure the best climate and the highest priority to reaching an agreement on a comprehensive nuclear weapon test ban.¹²²

At the 144th meeting on June 14th, the Soviet representative briefly referred to President Kennedy's speech when he said,

President Kennedy's speech inspires the hope that the effort being made both within and outside our Committee to improve the international situation, to create an atmosphere of confidence among countries, and to embark upon practical implementation of disarmament measures, will not be in vain.

He added, however, that "all of us are waiting for President Kennedy's thoughts and views on peaceful coexistence to be put into practice." He emphasized in this regard that the United States can rely on the full support and cooperation of the Soviet Union.¹²³

United States Government in his speech and also pointed out
 for every fact and every statement made by the Soviet
 officials in their speech. First, that the United States
 would not support any kind of a treaty which would
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 treaty which would be not in the interest of the United States.

After the speech, the Soviet Union

at the time of the speech, the Soviet Union
 was not in a position to support any
 treaty which would be not in the interest of the United States.

President Kennedy's speech included the fact that the
 United States would not support any treaty which would be not
 in the interest of the United States. He also pointed out
 that the United States would not support any treaty which would
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He added, however, that the United States would not support
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Conference Recesses

The 147th meeting on June 21st brought this period to a close. The closing statements of the members of the Committee indicated a general feeling of optimism particularly by the non-aligned members.

The Swedish representative commented that the Moscow negotiations will be "the centre of our attention and our hopes." He continued, "we hope that the nuclear Powers now at long last will succeed in reaching a test ban treaty, indeed, we more than hope, we expect that they will succeed."¹²⁴

The Burmese representative suggested that it might perhaps be useful for the Moscow conference negotiators to review the suggestions offered, jointly or singly, since February in this Conference by the non-aligned members, including the latest joint memorandum by the African delegations. In conclusion, he said that reflection on these suggestions and proposals should not interfere, conflict or intrude upon the Moscow talks. And he added, "today a test ban is timely, tomorrow it may be too late."¹²⁵

The Nigerian representative commenting on the test ban issue

. . . considerations of a technical, military and economic nature . . . have made it not only a necessity but almost a sine qua non that agreement of a test ban must be reached now. It is therefore, our hope that the impending high level talks between

Interim Report

The 14th meeting on the 14th day of the month of June, 1954, was held at the residence of the Chairman, Mr. J. H. ... The Chairman ... the ...

The Chairman ... the ... The Chairman ... the ... The Chairman ... the ...

The Chairman ... the ... The Chairman ... the ... The Chairman ... the ...

The Chairman ... the ...

The Chairman ... the ... The Chairman ... the ... The Chairman ... the ...

the nuclear Powers in Moscow will bear the much awaited fruits.¹²⁶

The Indian representative commented that the latest African memorandum should be given favorable consideration at the Moscow talks. He said in conclusion, "we here in the Committee, and the world at large, therefore look forward with great expectation to the success of these talks."¹²⁷

The Western and Soviet bloc representatives confined their comments to the problem of general and complete disarmament which indicated that the issue of the test ban agreement had been reserved for the forthcoming high level talks in Moscow on July 15th.

Summary

Thus, the fourth period of the Conference of the Eighteen-Nation Committee on Disarmament came to a close on June 21, 1963, after fifty-two plenary sessions.

Although the nuclear weapon test ban issue was given wide discussion, there was no change in the basic positions of the Western Powers or the Soviet Union. The Subcommittee on a Treaty for the Discontinuance of Nuclear Weapon Tests was not reconvened during this period although the United States had repeatedly requested it.

A great amount of time of the initial meetings was occupied with the problem of procedures, and it was finally resolved that the Monday meetings would be devoted

The business meeting in London will have the same

The United States representative commented that the United States representative would be given favorable consideration as the former failed to call on him in London, and the United States representative would be given favorable consideration as the former failed to call on him in London, and the United States representative would be given favorable consideration as the former failed to call on him in London.

high level talks in Moscow on July 19.

Early morning that the British meeting would be devoted
overnight with the problem of procurement, and it was the
A great amount of time to the various meetings was
Hence the United States has vigorously supported it.
Hence there are not recommended 1945-1946 period of
discussed as a theory for the elimination of nuclear
transition of the United States in the United States. The
given side discussion, there was no change in the United
Although the United States had been in the past was
on June 11, 1941, after 1941-1942 military assistance
discussed during the 1941-1942 military assistance
that, the United States at the time of the transition of the

to discussion of the nuclear weapon test ban issue, but a delegation could discuss whatever it wanted at any meeting. Therefore, during this period there was much more debate on other issues of disarmament and the time used on the nuclear weapon test ban issue was spent in using old arguments to support deadlocked positions particularly by the Soviet Union and its allies.

The United States did attempt to get technical details of inspection discussed and did put forward comprehensive views on this subject, but the Soviet Union refused to discuss these issues until acceptance of the Soviet position on on-site inspections of two to three a year.

The period ended on somewhat of an optimistic note with the announcement of the high-level talks between the Nuclear Powers on the nuclear weapon test ban issue scheduled for mid-July. However, the last Soviet statements in the Conference did not indicate any change in the Soviet position in reference to the main stumbling block--the problem of inspections.

The Conference was recessed following the meeting on June 21 and was scheduled to reconvene on July 30, 1963.

VI. SUMMARY OF THE EIGHTEEN-NATION COMMITTEE ON DISARMAMENT

On June 21, 1963, the Conference of the Eighteen-

to discussion of the Soviet Union but not later, for a
 telephone would connect Moscow. It seemed at any meeting
 however, that this would have been very soon.
 We often talked of discussion and the time came in the
 middle of the year that the Soviet Union was in contact with
 us in regard to the Soviet Union. It was not by the
 Soviet Union and its allies.

The Soviet Union did attempt to get technical in-
 formation of the Soviet Union and did not attempt to
 obtain any of this information, but the Soviet Union was
 turned to discuss some Soviet Union information of the
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 Yes.

The Soviet Union in Moscow as an official note
 after the announcement of the high-level talks between the
 Soviet Union and the United States. The Soviet Union
 extended the invitation. However, the last Soviet Union
 note to the United States did not contain any words in the
 Soviet Union in reference to the Soviet Union.
 The position of the Soviet Union.

The Committee was formed during the meeting
 on June 11 and was intended to represent on June 11, 1941.

IT IS THE POLICY OF THE UNITED STATES

TO OPPOSE SUCH AN ALLIANCE

ON JUNE 11, 1941, THE COMMITTEE OF THE UNITED STATES

Nation Committee on Disarmament recessed after one hundred and forty-seven plenary meetings had been held. This brought to a close the investigation of the nuclear weapons test ban negotiations. However, the Conference has not been adjourned and is scheduled to reconvene on July 30, 1963.

During these one hundred and forty-seven meetings of the Conference which had their beginning on March 14, 1962, numerous discussions have been held, many proposals have been made, but no agreement on a nuclear weapons test ban could be reached.

The establishment of the Subcommittee for a Treaty on the Discontinuance of Nuclear Weapon Tests on March 21, 1962, provided a forum for the three Nuclear Powers, but after fifty meetings they could not reach agreement and since December 18, 1962, no further meetings have been held.

The positions of the two sides have undergone some change, but the problems of technical details and inspection still are keeping the Nuclear Powers from finally reaching agreement.

The non-aligned members of the Committee put forward numerous suggestions and proposals on how the Nuclear Powers should proceed to reach agreement but none were adopted. The Eight-Nation Memorandum which they introduced

[illegible]

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Finally, the last step in the process is to evaluate the results of the plan. This involves monitoring the progress of the plan and determining whether the problem has been solved.

1. The Commission is not authorized to make any recommendation or suggestion to the President or the Secretary of Defense regarding the appointment, removal, or promotion of any officer or employee of the Department of Defense.

THE POSITION OF THE TWO SIDES WERE INTERESTINGLY
SIMILAR, THE TWO SIDES OF THE ROAD WERE INTERESTINGLY
SIMILAR, THE TWO SIDES OF THE ROAD WERE INTERESTINGLY
SIMILAR, THE TWO SIDES OF THE ROAD WERE INTERESTINGLY
SIMILAR, THE TWO SIDES OF THE ROAD WERE INTERESTINGLY

The following information was obtained from the files of the FBI:

on April 16, 1962, as a compromise solution provided a great deal of discussion because of differences of interpretation, but no agreement.

Thus the Conference of the Eighteen-Nation Committee on Disarmament did provide a forum for the continuing search for agreement on a nuclear weapons test ban after the adjournment of the Conference on the Discontinuance of Nuclear Weapon Tests on January 29, 1962.

on page 10, left, of a newspaper article provided a
 great deal of disagreeing among its readers of their
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CHAPTER IV - FOOTNOTES

¹Conference of the Eighteen-Nation Committee on Disarmament, Verbatim Transcript of the Second Meeting, ENDC/PV.2.

²Ibid., Verbatim Transcript of the Fifth Meeting, ENDC/PV.5.

³Ibid., Verbatim Transcript of the Sixth Meeting, ENDC/PV.6, March 21, 1962, p. 20.

⁴Supra, pp. 151-152.

⁵Conference of the Eighteen-Nation Committee on Disarmament, Subcommittee on a Treaty for the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of the First Meeting, ENDC/SC.1/PV.1, March 21, 1962, pp. 4-7.

⁶Ibid., pp. 7-10.

⁷Ibid., Verbatim Transcript of the Second Meeting, ENDC/SC.1/PV.2, March 22, 1962, pp. 3-9.

⁸Ibid., pp. 9-16.

⁹Ibid., Verbatim Transcript of the Fourth Meeting, ENDC/SC.1/PV.4.

¹⁰Conference of the Eighteen-Nation Committee on Disarmament, Verbatim Transcript of the Thirteenth Meeting, ENDC/PV.13.

¹¹Ibid., pp. 47-49.

¹²Ibid., Verbatim Transcript of the Fourteenth Meeting, ENDC/PV.14.

¹³Ibid., Verbatim Transcript of the Fifteenth Meeting, ENDC/PV.15, April 4, 1962, pp. 8-14.

¹⁴Ibid., pp. 15-26.

¹⁵"Joint Statement by President Kennedy and Prime Minister Macmillan to Premier Khrushchev, April 9, 1962," International Negotiations on Ending Nuclear Weapon Tests September 1961 - September 1962 (Washington: Government Printing Office, 1962), pp. 208-209.

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Washington, D.C. 20246

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2616-2617
2618-2619
2620-2621
2622-2623
2624-2625
2626-2627
2628-2629
2630-2631
2632-2633
2634-2635
2636-2637
2638-2639
2640-2641
2642-2643
2644-2645
2646-2647
2648-2649
2650-2651
2652-2653
2654-2655
2656-2657
2658-2659
2660-2661
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2664-2665
2666-2667
2668-2669
2670-2671
2672-2673
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2680-2681
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2684-2685
2686-2687
2688-2689
2690-2691
2692-2693
2694-2695
2696-2697
2698-2699
2700-2701
2702-2703
2704-2705
27

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1947 - International Commission on Intellectual Property
1948 - International Commission on Intellectual Property
1949 - International Commission on Intellectual Property

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³⁷ Ibid., Verbatim Transcript of the Twenty-Second Meeting, ENDC/SC.1/PV.22, July 26, 1962, p. 11.

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10. The Committee on the Administration of the Government
Meeting, Nov. 11, 1944, 10:00 a.m.

11. The Committee on the Administration of the Government
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12. The Committee on the Administration of the Government
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Meeting, Nov. 11, 1944, 10:00 a.m.

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46 Conference of the Eighteen-Nation Committee on Disarmament, Subcommittee on a Treaty for the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of the Twenty-first Meeting, op. cit., p. 17.

47 Ibid., p. 26-27.

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55 Ibid., pp. 45-57.

56 Ibid., Verbatim Transcript of the Seventieth Meeting, ENDC/PV.70, August 15, 1962, pp. 46-47.

57 Ibid., pp. 76-77.

58 Ibid., Verbatim Transcript of the Seventy-First Meeting, ENDC/PV.71, August 17, 1962, pp. 36-47.

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5. Statement of the Commission on the Status of Women, 1945-1946, pp. 41-50.

6. Statement of the Commission on the Status of Women, 1945-1946, pp. 51-60.

7. Statement of the Commission on the Status of Women, 1945-1946, pp. 61-70.

8. Statement of the Commission on the Status of Women, 1945-1946, pp. 71-80.

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12. Statement of the Commission on the Status of Women, 1945-1946, pp. 111-120.

13. Statement of the Commission on the Status of Women, 1945-1946, pp. 121-130.

14. Statement of the Commission on the Status of Women, 1945-1946, pp. 131-140.

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⁶³Ibid., Verbatim Transcript of the Seventy-Sixth Meeting, ENDC/PV.76, August 28, 1962, pp. 17-17, 41-47.

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⁶⁹Ibid., p. 66.

⁷⁰Ibid., Verbatim Transcript of the Eightieth Meeting, ENDC/PV.80, September 4, 1962, pp. 17-18.

⁷¹Ibid., Verbatim Transcript of the Eighty-First Meeting, ENDC/PV.81, September 5, 1962, p. 87.

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⁷⁴Ibid., pp. 7-8.

⁷⁵Ibid., Verbatim Transcript of the Eighty-First Meeting, op. cit., pp. 5-10.

⁷⁶Ibid., Verbatim Transcript of the Eighty-Third Meeting, ENDC/PV.83, November 16, 1962, pp. 3-15.

⁷⁷Ibid., pp. 28-30.

⁷⁸Ibid., Verbatim Transcript of the Eighty-Fourth Meeting, ENDC/PV.84, November 28, 1962, pp. 11-13.

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⁸¹Ibid., Verbatim Transcript of the Eighty-Fifth Meeting, ENDC/PV.85, November 30, 1962, p. 14.

⁸²Ibid., Verbatim Transcript of the Eighty-Sixth Meeting, ENDC/PV.86, December 3, 1962, p. 25.

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⁸⁴Ibid., pp. 25-35.

⁸⁵Ibid., pp. 45-49.

⁸⁶Ibid., Verbatim Transcript of the Eighty-Seventh Meeting, ENDC/PV.87, December 5, 1962, pp. 4-14, 30-38.

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⁸⁹Ibid., Verbatim Transcript of the Ninetieth Meeting, op. cit., pp. 27-28.

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⁹⁶Ibid., pp. 40-41.

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⁹⁸Ibid., pp. 39-40. The controversy partly arose over statements made by the United Kingdom representative.

Section 101	General Provisions of the Act	101-102
Section 102	Definitions	102-103
Section 103	Enforcement of the Act	103-104
Section 104	Penalties	104-105
Section 105	Administrative Provisions	105-106
Section 106	Amendments	106-107
Section 107	Repeal of Existing Laws	107-108
Section 108	Final Provisions	108-109
Section 109	Short Title	109-110
Section 110	Commencement	110-111
Section 111	Transitional Provisions	111-112
Section 112	Constitutionality	112-113
Section 113	Approval	113-114
Section 114	Signature	114-115
Section 115	Witnesses	115-116
Section 116	Publication	116-117
Section 117	Printing	117-118
Section 118	Costs	118-119
Section 119	Supplies	119-120
Section 120	Stationery	120-121
Section 121	Postage	121-122
Section 122	Telegrams	122-123
Section 123	Telephone	123-124
Section 124	Radio	124-125
Section 125	Television	125-126
Section 126	Internet	126-127
Section 127	Other Means of Communication	127-128
Section 128	General Provisions	128-129
Section 129	Definitions	129-130
Section 130	Enforcement of the Act	130-131
Section 131	Penalties	131-132
Section 132	Administrative Provisions	132-133
Section 133	Amendments	133-134
Section 134	Repeal of Existing Laws	134-135
Section 135	Final Provisions	135-136
Section 136	Short Title	136-137
Section 137	Commencement	137-138
Section 138	Transitional Provisions	138-139
Section 139	Constitutionality	139-140
Section 140	Approval	140-141
Section 141	Signature	141-142
Section 142	Witnesses	142-143
Section 143	Publication	143-144
Section 144	Printing	144-145
Section 145	Costs	145-146
Section 146	Supplies	146-147
Section 147	Stationery	147-148
Section 148	Postage	148-149
Section 149	Telegrams	149-150
Section 150	Telephone	150-151
Section 151	Radio	151-152
Section 152	Television	152-153
Section 153	Internet	153-154
Section 154	Other Means of Communication	154-155
Section 155	General Provisions	155-156
Section 156	Definitions	156-157
Section 157	Enforcement of the Act	157-158
Section 158	Penalties	158-159
Section 159	Administrative Provisions	159-160
Section 160	Amendments	160-161
Section 161	Repeal of Existing Laws	161-162
Section 162	Final Provisions	162-163
Section 163	Short Title	163-164
Section 164	Commencement	164-165
Section 165	Transitional Provisions	165-166
Section 166	Constitutionality	166-167
Section 167	Approval	167-168
Section 168	Signature	168-169
Section 169	Witnesses	169-170
Section 170	Publication	170-171
Section 171	Printing	171-172
Section 172	Costs	172-173
Section 173	Supplies	173-174
Section 174	Stationery	174-175
Section 175	Postage	175-176
Section 176	Telegrams	176-177
Section 177	Telephone	177-178
Section 178	Radio	178-179
Section 179	Television	179-180
Section 180	Internet	180-181
Section 181	Other Means of Communication	181-182
Section 182	General Provisions	182-183
Section 183	Definitions	183-184
Section 184	Enforcement of the Act	184-185
Section 185	Penalties	185-186
Section 186	Administrative Provisions	186-187
Section 187	Amendments	187-188
Section 188	Repeal of Existing Laws	188-189
Section 189	Final Provisions	189-190
Section 190	Short Title	190-191
Section 191	Commencement	191-192
Section 192	Transitional Provisions	192-193
Section 193	Constitutionality	193-194
Section 194	Approval	194-195
Section 195	Signature	195-196
Section 196	Witnesses	196-197
Section 197	Publication	197-198
Section 198	Printing	198-199
Section 199	Costs	199-200
Section 200	Supplies	200-201
Section 201	Stationery	201-202
Section 202	Postage	202-203
Section 203	Telegrams	203-204
Section 204	Telephone	204-205
Section 205	Radio	205-206
Section 206	Television	206-207
Section 207	Internet	207-208
Section 208	Other Means of Communication	208-209
Section 209	General Provisions	209-210
Section 210	Definitions	210-211
Section 211	Enforcement of the Act	211-212
Section 212	Penalties	212-213
Section 213	Administrative Provisions	213-214
Section 214	Amendments	214-215
Section 215	Repeal of Existing Laws	215-216
Section 216	Final Provisions	216-217
Section 217	Short Title	217-218
Section 218	Commencement	218-219
Section 219	Transitional Provisions	219-220
Section 220	Constitutionality	220-221
Section 221	Approval	221-222
Section 222	Signature	222-223
Section 223	Witnesses	223-224
Section 224	Publication	224-225
Section 225	Printing	225-226
Section 226	Costs	226-227
Section 227	Supplies	227-228
Section 228	Stationery	228-229
Section 229	Postage	229-230
Section 230	Telegrams	230-231
Section 231	Telephone	231-232
Section 232	Radio	232-233
Section 233	Television	233-234
Section 234	Internet	234-235
Section 235	Other Means of Communication	235-236
Section 236	General Provisions	236-237
Section 237	Definitions	237-238
Section 238	Enforcement of the Act	238-239
Section 239	Penalties	239-240
Section 240	Administrative Provisions	240-241
Section 241	Amendments	241-242
Section 242	Repeal of Existing Laws	242-243
Section 243	Final Provisions	243-244
Section 244	Short Title	244-245
Section 245	Commencement	245-246
Section 246	Transitional Provisions	246-247
Section 247	Constitutionality	247-248
Section 248	Approval	248-249
Section 249	Signature	249-250
Section 250	Witnesses	250-251
Section 251	Publication	251-252
Section 252	Printing	252-253
Section 253	Costs	253-254
Section 254	Supplies	254-255
Section 255	Stationery	255-256
Section 256	Postage	256-257
Section 257	Telegrams	257-258
Section 258	Telephone	258-259
Section 259	Radio	259-260
Section 260	Television	260-261
Section 261	Internet	261-262
Section 262	Other Means of Communication	262-263
Section 263	General Provisions	263-264
Section 264	Definitions	264-265
Section 265	Enforcement of the Act	265-266
Section 266	Penalties	266-267
Section 267	Administrative Provisions	267-268
Section 268	Amendments	268-269
Section 269	Repeal of Existing Laws	269-270
Section 270	Final Provisions	270-271
Section 271	Short Title	271-272
Section 272	Commencement	272-273
Section 273	Transitional Provisions	273-274
Section 274	Constitutionality	274-275
Section 275	Approval	275-276
Section 276	Signature	276-277
Section 277	Witnesses	277-278
Section 278	Publication	278-279
Section 279	Printing	279-280
Section 280	Costs	280-281
Section 281	Supplies	281-282
Section 282	Stationery	282-283
Section 283	Postage	283-284
Section 284	Telegrams	284-285
Section 285	Telephone	285-286
Section 286	Radio	286-287
Section 287	Television	287-288
Section 288	Internet	288-289
Section 289	Other Means of Communication	289-290
Section 290	General Provisions	290-291
Section 291	Definitions	291-292
Section 292	Enforcement of the Act	292-293
Section 293	Penalties	293-294
Section 294	Administrative Provisions	294-295
Section 295	Amendments	295-296
Section 296	Repeal of Existing Laws	296-297
Section 297	Final Provisions	297-298
Section 298	Short Title	298-299
Section 299	Commencement	299-300
Section 300	Transitional Provisions	300-301
Section 301	Constitutionality	301-302
Section 302	Approval	302-303
Section 303	Signature	303-304
Section 304	Witnesses	304-305
Section 305	Publication	305-306
Section 306	Printing	306-307
Section 307	Costs	307-308
Section 308	Supplies	308-309
Section 309	Stationery	309-310
Section 310	Postage	310-311
Section 311	Telegrams	311-312
Section 312	Telephone	312-313
Section 313	Radio	313-314
Section 314	Television	314-315
Section 315	Internet	315-316
Section 316	Other Means of Communication	316-317
Section 317	General Provisions	317-318
Section 318	Definitions	318-319
Section 319	Enforcement of the Act	319-320
Section 320	Penalties	320-321
Section 321	Administrative Provisions	321-322
Section 322	Amendments	322-323
Section 323	Repeal of Existing Laws	323-324
Section 324	Final Provisions	324-325
Section 325	Short Title	325-326
Section 326	Commencement	326-327
Section 327	Transitional Provisions	327-328
Section 328	Constitutionality	328-329
Section 329	Approval	329-330
Section 330	Signature	330-331
Section 331	Witnesses	331-332
Section 332	Publication	332-333
Section 333	Printing	333-334
Section 334	Costs	334-335
Section 335	Supplies	335-336
Section 336	Stationery	336-337
Section 337	Postage	337-338
Section 338	Telegrams	338-339
Section 339	Telephone	339-340
Section 340	Radio	340-341
Section 341	Television	341-342
Section 342	Internet	342-343
Section 343	Other Means of Communication	343-344
Section 344	General Provisions	344-345
Section 345	Definitions	345-346
Section 346	Enforcement of the Act	346-347
Section 347	Penalties	347-348
Section 348	Administrative Provisions	348-349
Section 349	Amendments	349-350
Section 350	Repeal of Existing Laws	350-351
Section 351	Final Provisions	351-352
Section 352	Short Title	352-353
Section 353	Commencement	353-354
Section 354	Transitional Provisions	354-355
Section 355	Constitutionality	355-356
Section 356	Approval	356-357
Section 357	Signature	357-358
Section 358	Witnesses	358-359
Section 359	Publication	359-360
Section 360	Printing	360-361
Section 361	Costs	361-362
Section 362	Supplies	362-363
Section 363	Stationery	363-364
Section 364	Postage	364-365
Section 365	Telegrams	365-366
Section 366	Telephone	366-367
Section 367	Radio	367-368
Section 368	Television	368-369
Section 369	Internet	369-370
Section 370	Other Means of Communication	370-371
Section 371	General Provisions	371-372
Section 372	Definitions	372-373
Section 373	Enforcement of the Act	373-374
Section 374	Penalties	374-375
Section 375	Administrative Provisions	375-376
Section 376	Amendments	376-377
Section 377	Repeal of Existing Laws	377-378
Section 378	Final Provisions	378-379
Section 379	Short Title	379-380
Section 380	Commencement	380-381
Section 381	Transitional Provisions	381-382
Section 382	Constitutionality	382-383
Section 383	Approval	383-384
Section 384	Signature	384-385
Section 385	Witnesses	385-386
Section 386	Publication	386-387
Section 387	Printing	387-388
Section 388	Costs	388-389
Section 389	Supplies	389-390
Section 390	Stationery	390-391
Section 391	Postage	391-392
Section 392	Telegrams	392-393
Section 393	Telephone	393-394
Section 394	Radio	394-395
Section 395	Television	395-396
Section 396	Internet	396-397
Section 397	Other Means of Communication	397-398
Section 398	General Provisions	398-399
Section 399	Definitions	399-400
Section 400	Enforcement of the Act	400-401
Section 401	Penalties	401-402
Section 402	Administrative Provisions	402-403
Section 403	Amendments	403-404
Section 404	Repeal of Existing Laws	404-405
Section 405	Final Provisions	405-406
Section 406	Short Title	406-407
Section 407	Commencement	407-408
Section 408	Transitional Provisions	408-409
Section 409	Constitutionality	409-410
Section 410	Approval	410-411
Section 411	Signature	411-412
Section 412	Witnesses	412-413
Section 413	Publication	413-414
Section 414	Printing	414-415
Section 415	Costs	415-416
Section 416	Supplies	416-417
Section 417	Stationery	417-418
Section 418	Postage	418-419
Section 419	Telegrams	419-420
Section 420	Telephone	420-421
Section 421</		

He said at a subcommittee meeting "We could have a complete comprehensive treaty and all that is necessary for that is for the Soviet Union to revert--not to accept anything new but to revert--to accepting something which a year ago, here in this building, our Soviet colleague renounced. In other words, to accept again the principle of obligatory on-site inspection. That is all we need--a very small number of on-site inspections a year. If that were conceded by the Soviet Union, if it were to revert to the position held until 28 November last year I believe we could quickly reach a comprehensive test ban." Conference of the Eighteen-Nation Committee on Disarmament, Subcommittee on a Treaty for the Discontinuance of Nuclear Weapon Tests, Verbatim Transcript of the Forty-Fourth Meeting, ENDC/SC.1/PV.44, November 20, 1962, p. 11. He also said on 5 December 1962 in the plenary session, "But what I am saying is that if the Soviet Government were willing today to take the position that it took for two years until almost a year ago today, a comprehensive treaty could no doubt be signed by 1 January 1963." Conference of the Eighteen-Nation Committee on Disarmament, Verbatim Transcript of the Eighty-Seventh Meeting, op. cit., p. 5.

⁹⁹ Conference of the Eighteen-Nation Committee on Disarmament, Verbatim Transcript of the One Hundred and First Meeting, ENDC/PV.101, February 22, 1963, pp. 19-34.

¹⁰⁰ Ibid., pp. 41-46.

¹⁰¹ Ibid., pp. 48-49.

¹⁰² Ibid., Verbatim Transcript of the One Hundred and Second Meeting, ENDC/PV.102, February 25, 1963, p. 24.

¹⁰³ Ibid., Verbatim Transcript of the One Hundred and Third Meeting, February 27, 1963, pp. 23-24, ENDC/PV.103.

¹⁰⁴ Ibid., Verbatim Transcript of the One Hundred and Eighth Meeting, ENDC/PV.108, March 13, 1963, pp. 3-5.

¹⁰⁵ Ibid., Verbatim Transcript of the One Hundred and Fourth Meeting, March 1, 1963, ENDC/PV.104, pp. 15-21.

¹⁰⁶ Ibid., pp. 38-41.

¹⁰⁷ Ibid., Verbatim Transcript of the One Hundred and Fifth Meeting, ENDC/PV.105, March 6, 1963, pp. 18-26.

¹⁰⁸ Ibid., p. 42.

¹⁰⁹ Ibid., Verbatim Transcript of the One Hundred and Ninth Meeting, ENDC/PV.109, March 15, 1963, pp. 9-24.

¹¹⁰ Ibid., pp. 24-25.

¹¹¹ Ibid., pp. 37-38.

¹¹² Ibid., Verbatim Transcript of the One Hundred and Sixteenth Meeting, ENDC/PV.116, April 1, 1963, pp. 10-14.

¹¹³ Ibid., pp. 15-21.

¹¹⁴ Ibid., Verbatim Transcript of the One Hundred and Nineteenth Meeting, ENDC/PV.119, April 8, 1963, pp. 17-20.

¹¹⁵ Ibid., pp. 20-25.

¹¹⁶ Ibid., Verbatim Transcript of the One Hundred and Twenty-Sixth Meeting, ENDC/PV.126, April 29, 1963, p. 25.

¹¹⁷ Ibid., Verbatim Transcript of the One Hundred and Thirty-First Meeting, ENDC/PV.131, May 13, 1963, pp. 13-18.

¹¹⁸ Ibid., Verbatim Transcript of the One Hundred and Forty-Fifth Meeting, ENDC/PV.145, June 17, 1963, pp. 14-16.

¹¹⁹ Ibid., Verbatim Transcript of the One Hundred and Forty-Second Meeting, ENDC/PV.142, June 10, 1963, pp. 6-9.

¹²⁰ President Kennedy, "Toward A Strategy of Peace," The Department of State Bulletin, Vol. XLIX (July 1, 1963), pp. 5-6.

¹²¹ Conference of the Eighteen-Nation Committee on Disarmament, Verbatim Transcript of the One Hundred and Forty-Third Meeting, ENDC/PV.143, p. 4.

¹²² Ibid., pp. 11-14.

¹²³ Ibid., Verbatim Transcript of the One Hundred and Forty-Fourth Meeting, ENDC/PV.144, June 18, 1963, p. 11.

¹²⁴ Ibid., Verbatim Transcript of the One Hundred and Forty-Seventh Meeting, ENDC/PV.147, June 21, 1963, p. 17.

125 Ibid., pp. 29-31.

126 Ibid., p. 43.

127 Ibid., p. 44.

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CHAPTER V

UNITED STATES AND SOVIET UNION NUCLEAR WEAPONS TEST BAN POSITION

1 JULY 1963

Introduction

The position of the United States and the Soviet Union as of 1 July 1963 in reference to the nuclear weapons test ban agreement has undergone extensive change from the original positions they put forth in the earlier part of the negotiations when they began in 1958. These positions have evolved from the negotiations, increased scientific and technological knowledge, and the changing international situation.

For purposes of analysis, the positions can best be reviewed if taken in three but interrelated elements. First, the position in reference to atmospheric, outer space and underwater tests; second in reference to underground tests; and third, in reference to the verification system.

The United States Position

Atmospheric, outer space and underwater tests. The United States position on a test ban on atmospheric, outer space and underwater tests is basically that national systems of detection and identification are adequate for

the detection of explosions in these environments. This current position has evolved from a comprehensive system of extensive control posts, on-site inspections and aircraft sampling flights. The main reason for the evolution of this position to reliance on national systems was the increase in technological knowledge, particularly in the field of long-range seismology, satellites, and instrumentation. This is particularly true because explosions in these environments, with the possible exception of extreme outer-space, evidence of them cannot be confined to the limits of any particular country. The possibility of non-detection in extreme outer space is also very small because of the increased capability of launching satellites and in instrumentation which both nuclear sides possess.

The specific elements of the United States national detection system have not been made public and remain classified, but Senator Humphrey indicated in a speech he made in the Senate on March 7, 1963, "the fact is that our detection capability is much greater than the press has led us to believe on the basis of the information it has received from the United States government."¹ Senator Clark also stated that

as the art has progressed, our country has constructed additional stations and has trained additional men in the art, so that as of today . . . it is almost universally admitted that tests in the atmosphere and those under water and those in

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detention system have been made possible and remain
classified, says Secretary Humphrey. Included in a speech he
made in the House on March 7, 1967, "the fact is that our
detention capability is much greater than the years ago
and we are relying on the basis of the information it has
received from the United States government."

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Once a plan of action has been developed, the next step is to implement the plan. This involves carrying out the steps that have been identified in the plan and monitoring the progress of the implementation. Finally, the last step in the process is to evaluate the results of the implementation. This involves determining whether the problem has been solved and whether the resources have been used effectively.

outer space can be detected without establishing within the Soviet Union any stations or means of control.²

It was on the basis of this capability to detect and identify nuclear explosions in the atmosphere, under water and outer space that prompted the United States to propose on April 13, 1959, the phased treaty concept. The proposal recognized the agreement over detecting explosions in the three elements while negotiations continued toward reaching settlement in the other area--underground testing.

The latest proposal was submitted by the United States and the United Kingdom jointly on August 27, 1962, as an alternative treaty if a comprehensive test ban treaty could not be agreed upon. This proposal covered the banning of all tests in the atmosphere, outer space and under water without international control, and each side would rely on their own national detection and identification systems to police the ban. However, the United States position remained that it would not accept a moratorium on underground testing in conjunction with the partial or limited test ban, a position it has held since September 1961 when the Soviet Union broke the three year moratorium on testing.

Thus the latest United States position on banning tests in the atmosphere, outer space, and underwater would

ban nuclear weapon tests in or above the atmosphere and in territorial waters or high seas; bind the signatories to refrain from encouraging or participating in such nuclear explosions by any other State; permit explosions prescribed in the treaty for peaceful purposes under conditions specified in the treaty; not require any international verification machinery; provide a cut-off date for testing; and, contain provision for withdrawal, after notice had been given, if a party deemed the treaty had been violated or that a State not a party to the treaty had tested and if the party also deemed this jeopardized its national security.

Underground tests. The real area of disagreement and difference in position has revolved around the issue of detection and identification of underground tests. The basic United States position has remained fundamentally the same since the negotiations began. That is, namely, that no technical means is presently available that will distinguish positively, in all cases, between a nuclear explosion and an earthquake. Therefore, there will always be a certain number of unidentified events that can only be positively identified by on-site inspection at the source of the event.

Technological progress has succeeded in lowering the number of unidentified events but not of identifying

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International Treaty The treaty was of importance
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them all. The problem is one of detection because it is conceived that national systems have the capability of detecting events but not of identifying them.

Because of this basic principle, a certain amount of control is necessary to police this aspect of a comprehensive ban. The United States position thus is that as long as there is no technical means or method to identify positively an event as an earthquake or explosion then the only method of determining whether an event was an earthquake or explosion is by on-site inspection. Further, the position has remained that the number of inspections must be correlated to the number of unidentified events in order to act as a positive deterrent against cheating.

Additionally, decoupling and dampening techniques of muffling the explosion by various methods have been put forward by the United States to demonstrate a means of increasing the size of the explosion but decreasing the signal strength thus increasing the military value of the explosion and complicating detection and identification. Therefore, because of the technological problems and the military value of underground tests, a comprehensive test ban in all elements requires a much greater verification system than that considered necessary for a limited or partial ban in the other three environments.

Verification system. Because of the technical

problems of distinguishing between earthquakes and nuclear explosions of small yield used in underground testing, the United States has always put forth the position that effective control requires a verification system that will remove most elements of doubt and provide reasonable assurance against cheating.

The latest position has evolved through the course of the negotiations and improvements in technological knowledge and instrumentation. The system proposed is built around the nucleus of national manned and operated detection stations. To supplement this system, a number of automatic seismic stations would be established in each of the nuclear countries to increase the capabilities of the national systems and to supplement the information furnished by the national detection systems. To verify those events that cannot be identified as earthquakes the system calls for a yearly quota of on-site inspections. Thus, the United States position on the verification system is one of national detection stations, automatic seismic stations and on-site inspection.

Additionally, an international scientific commission is proposed that would operate as a clearinghouse for data received from national systems and automatic stations which would be passed from one side to the other. This commission would be assisted by a small staff that would aid the

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commission in the collection of data from the automatic stations, deliver, place and pickup the sealed equipment at the automatic stations, and maintain and calibrate the equipment in conjunction with the Nuclear Powers.

The position on inspections is that once an event has been detected and which, after the application of certain prescribed criteria cannot be identified as an earthquake, the other Nuclear Powers concerned can call for on-site inspections at the location of the event to determine whether it was an earthquake or nuclear explosion. The inspection teams would be made up, in the case of an inspection in the Soviet Union, of fourteen United States or United Kingdom technicians plus fourteen representatives of the international commission so long as they are not nationals of the NATO or Warsaw Pact countries. The number of inspections which the United States considers necessary in relation to the estimated number of unidentified events that will occur within the Soviet Union each year is seven, provided that national seismic stations and automatic seismic stations are properly equipped and located.

The system is built upon the premise that there should be an agreed sequence and orderly procedure for the carrying out of an on-site inspection. This procedure, as envisaged by the United States, would work as follows:

First, an event would be detected by national

seismic stations, this data would be analyzed and discussed by officials of the national system and would also be transmitted to the international commission and to the other side.

Second, a State would have sixty days from the time of the seismic event to designate the event as subject to on-site inspection.

Third, the procedure involved to request inspection would be:

(a) The designating side would send a statement to the commission and through it to the country in which the event took place. This statement would indicate the location of the event and time of its occurrence.

(b) The designating side would then forward data from at least four seismic stations by which the event was located. This data would have to provide for location when seismic signals whose frequencies, amplitudes, durations and velocities are consistent with those of waves from earthquakes or explosions are recorded at a sufficient number of stations to establish the approximate time and position of the event. Requires a minimum of four stations.

(c) The designating country must declare that the event located is not an identifiable earthquake on the basis of the following criteria:

(1) its depth of focus is not established as below sixty kilometers;

(2) its epicentral location is not established to be in the deep open ocean.

(3) it is not established to be a foreshock of a seismic event of at least magnitude six which has been clearly identified as an earthquake.

(4) it is not established to be an aftershock of a seismic event of at least magnitude six which has been clearly identified as an earthquake.³

(d) The State on whose territory the event took place should have one week to provide all supplementary information which it had and wished to make available about the event. This information would be given to the commission and through it to the designating State.

(e) During this week for furnishing supplemental information, the designating State would have the opportunity to examine the data collected by the automatic seismic stations in the country where the event occurred. The retrieval should be accomplished by personnel from the designating State and the international commission.

(f) The designating side should be given an additional week to analyze the data from the country concerned and the automatic seismic stations.

(g) Before the lapse of this additional week,

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the designating State would have to submit another statement requesting on-site inspection. If the period lapses without requesting inspection, the event would no longer be eligible for inspection. This statement requesting on-site inspection should include information on the location and boundaries of the area selected for inspection. The area would be a maximum of 500 square kilometers. Further, the statement must include the proposed time and place of the arrival of the inspection team.

(h) The host State would have five days from the date of the request for on-site inspection to indicate arrangements for reception and transportation of the inspection team to the inspection site. Also, during this time, the host State can file a report with the Commission indicating the presence of a sensitive defense installation in the inspection area. The designating State could then continue the inspection excluding the sensitive area or cancel the inspection and retain the quota number for future use.

Fourth, the inspection process. The inspection team would consist of twenty-eight members, fourteen of them from the nuclear side opposite the one being inspected. The other members of the team would be selected by the commission from the non-aligned countries. The host State can send observers with the inspection team and can

institute any safeguards it considers necessary for its national security. However, these safeguards cannot interfere with the timely arrival of the team at the inspection site. The team would normally include specially trained scientists and technicians. All the equipment for the team would be furnished by the team except for heavy transportation equipment; such as, trucks and helicopters. The inspection team would have a maximum of six weeks to complete their examination of the inspection area. The time could be extended by mutual agreement. The physical inspection would include low level helicopter flights for visual and photographic survey, access and inspection to any sub-cavities and drilling, if necessary, but this must be requested within five weeks from the start of the inspection. The team leader must submit a report on the findings of the inspection to all concerned not later than thirty days after completion of the inspection.⁴

Summary. Thus the United States position in reference to a comprehensive test ban covering all four elements--atmosphere, outer space, underwater and underground--would consist of a treaty banning all tests in any environment and a verification system consisting of national detection and identification system, an international commission, automatic seismic stations and a quota system of on-site inspections.

Institute for Research in Chemistry, University of
 Illinois, Urbana, Illinois, 61801. However, these techniques cannot be
 compared with the direct analysis of the same at the inspection
 stage. The same could possibly involve specially trained
 inspectors and facilities. All the equipment for the
 test would be provided by the test center for every
 transportation equipment, such as, trucks and railroads.
 The inspection team would have a station on the road in
 complete direct communication of the inspection area. The
 time could be extended by direct equipment. The initial
 inspection would include the level indicator lights for
 visual and nonvisual inspection, correct and incorrect in
 any sub-system and lighting, if necessary, but this may
 be repeated again this year from the start of the
 inspection. The test leader would submit a report on the
 findings of the inspection to all concerned but later the
 report may also mention of the inspection.
 Summary: That the United States remains in the
 state of a transportation test has covered all the
 state—transportation, water, air, land, and water—
 would consist of a direct showing all tests as my system
 test and a verification system consisting of a
 national and international system, in international
 systems, scientific and technical and a direct system
 of scientific and technical.

The national stations would be located, equipped, operated and supervised by the nuclear side concerned.

The international commission would be composed of fifteen members, four from the West, four from the Soviet bloc, and seven from the non-aligned countries. The primary duties of the commission would be: to act as a clearinghouse for data received from the national systems and the automatic seismic stations and pass this data from one side to the other; assist in the automatic seismic station delivery, placement and pickup of the sealed equipment furnished by the Nuclear Powers; and to furnish assistance for the inspection process.

The United States proposes seven automatic seismic stations to be located within each nuclear country. The location of the sites to be mutually agreed upon. Equipment for these stations would be furnished by the nuclear countries and would be picked up and delivered a maximum of eight times yearly by representatives of the nuclear side concerned and representatives of the international commission. The purpose of these stations is to add to the capabilities of the national systems and to supplement the information furnished by the national systems to the commission and to the other side.

The acceptance of obligatory on-site inspection remains the keystone of the United States verification

system. They presently propose a quota of seven inspections in the nuclear countries per year provided that national stations and automatic stations are properly located and equipped.

Although the United States has indicated that it wants a comprehensive test ban treaty, five years of negotiations have failed to overcome the disagreement over the verification system. Therefore, the United States has also indicated that it would accept an alternative limited test ban treaty banning tests in the atmosphere, outer space, and underwater without any international control organization or on-site inspection and would rely on national systems for detection and policing the ban in these elements. However, the United States position has remained that it will not accept a moratorium on testing in the other element, underground testing, in conjunction with a treaty banning tests in the other three elements.

The Position of the Soviet Union

Atmospheric, outer space and underwater tests. The Soviet Union has long contended during the course of the negotiations that national detection and identification systems were adequate for the policing of a ban on testing in the atmosphere, outer space and underwater. Their position remains that international control is not necessary for the detection of explosions in these elements. However,

system. They necessarily involve a great deal of work in the
 lines in the various countries and great provision must
 national systems and national systems are necessary
 interest and equipment.
 Although the United States has believed that it
 with a comprehensive law has passed the law of 1916
 system have failed to prevent the development over the
 national system. However, the United States has
 also believed that it would be an advantage limited
 has been greatly benefited from the development of
 system and national system and international system.
 organization in the United States and will rely on
 national system the national and national law is
 these elements. However, the United States system has
 believed that it will be a system as feeling
 in the other elements, national system, is necessary
 with a fairly small number in the other three elements.

The Position of the United States

However, the United States will not be able to
 United States has long maintained during the course of the
 organization that national system and international
 system was always the building of a law on feeling
 in the elements, national system and international. This law
 law system that international system is not necessary
 for the system of organization in these elements. However,

they have not been willing to accept a limited ban on testing in the atmosphere, outer space and underwater without a moratorium on testing in the other element, underground, while negotiations continue toward reaching an acceptable solution in this area.

Underground tests. The Soviet position in regards to underground tests is that national systems have the capability of detecting and identifying events in this element also. However, they have not furnished any scientific proof as requested by the Western Powers and have agreed to a limited number of automatic seismic stations and a small quota of on-site inspections. Their position remains that they will accept three automatic seismic stations on their soil and will allow the Western Powers up to three on-site inspections yearly. Their continued position is that these are not necessary but are put forward in an effort to reach agreement as a concession to the West. They have also stated that because they are a concession to the desires of the West they are firm and not negotiable.

Verification system. The latest Soviet position in reference to a verification system remains unclear because of the Soviet insistence that the West must accept their numerical number of automatic seismic stations and their proposed quota for on-site inspections before they will

they have not been willing to accept a limited but no
 testing in the atmosphere, cannot speak and otherwise
 without a restriction on property in the same manner,
 unrepresented, and the representative committee toward creating
 an appropriate situation in this case. The committee has
Indefinite delay. The latest position in regard
 to the situation is that the national system has the
 capability of testing and identifying some of the
 elements that, however, they have not determined any other
 with regard to the situation. The committee has been
 agreed to a limited number of elements and the situation
 and a small group of people has been identified. Their position
 remains that they will accept some additional testing
 situation on their part and will give the national system
 up to some extent in the situation. Their condition
 remains in that there are not necessarily for the first
 time in an effort to reach agreement on a situation in
 the past. They have also stated that because they are a
 committee to the nation of the way they are the end
 are representative.

Verification system. The latest position is
 reference to a verification system remains within because
 at the Soviet leadership and the way that things were
 somewhat number of elements and the situation and still
 present given the in-line inspection system they will

discuss the technical details of a verification system. They have accepted the eight nation proposal for an international scientific commission but have refused to spell out any details in reference to it. However, a review of the past negotiations indicates that there would be very few areas of disagreement with the latest Western proposals for a verification system.

Summary. Thus the Soviet position in reference to a nuclear weapons test ban is the use of national detection systems; acceptance of a small scientific commission whose duties and functions they have not defined; acceptance of three automatic seismic stations in the Soviet Union; and, the acceptance of three on-site inspections per year. In regards to a limited test ban, they have refused to accept a treaty banning tests in the atmosphere, outer space and underwater without a moratorium on testing underground while negotiations continue on a comprehensive agreement.

Comparison of the Positions

A comparison of the two positions reveals that they both accept national detection and identification systems, automatic seismic stations to supplement national systems, a limited international commission, and on-site inspections.

The difference lies in the technical and political aspects of the problem of control.

The United States position is based on the minimum acceptable amount of control, based on the latest scientific and technical data, to ensure effective control and to act as a deterrent against cheating. Therefore, their position requires, based on the latest scientific evaluation, seven automatic seismic stations within each nuclear country and seven on-site inspections per year.

The Soviet position, on the other hand, is based on strictly political considerations, whereby she concedes to the Western Powers three automatic seismic stations in each nuclear country and a maximum of three on-site inspections per year as a political concession to facilitate agreement. The basic position the Soviet Union continues to argue is that inspection is not scientifically necessary and the path to agreement lies only in reaching a strictly political solution to the differences.

Thus, on the surface, the positions appear to be similar but underneath there remains differences in principle.

The United States is not in the position
 of being able to supply the world with
 cotton. It is not in the position of being
 able to supply the world with wheat. It is
 not in the position of being able to supply
 the world with oil. It is not in the position
 of being able to supply the world with
 iron. It is not in the position of being
 able to supply the world with coal. It is
 not in the position of being able to supply
 the world with sugar. It is not in the
 position of being able to supply the world
 with rice. It is not in the position of
 being able to supply the world with
 cotton.

The United States is not in the position
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 the world with oil. It is not in the position
 of being able to supply the world with
 iron. It is not in the position of being
 able to supply the world with coal. It is
 not in the position of being able to supply
 the world with sugar. It is not in the
 position of being able to supply the world
 with rice. It is not in the position of
 being able to supply the world with
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 able to supply the world with wheat. It is
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 the world with oil. It is not in the position
 of being able to supply the world with
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 able to supply the world with coal. It is
 not in the position of being able to supply
 the world with sugar. It is not in the
 position of being able to supply the world
 with rice. It is not in the position of
 being able to supply the world with
 cotton.

China

CHAPTER V - FOOTNOTES

¹Hubert H. Humphrey, "A Nuclear Test Ban and National Security," Congressional Record, Proceedings and debates of the 86th Congress, First Session, March 7, 1963, p. 6.

²Ibid., p. 4.

³Conference of the Eighteen-Nation Committee on Disarmament, Verbatim Transcript of the One Hundred and Tenth Meeting, March 18, 1963, p. 20. The United States representative remarked that the United States would accept the temporary criteria agreed to at the Conference for the Discontinuance of Nuclear Weapons Tests.

⁴Conference of the Eighteen-Nation Committee on Disarmament, Verbatim Transcript of the One Hundred and Tenth Meeting, op. cit., pp. 12-25; and Verbatim Transcript of the One Hundred and Thirteenth Meeting, EWOC/PV. 113, March 25, 1963, pp. 5-9. The United States representative outlined in detail the technical details of the inspection procedures as envisaged by the United States.

CHAPTER VI

MUTUAL ADVANTAGES FOR DISCONTINUANCE OF NUCLEAR WEAPONS TESTING

I. INTRODUCTION

Why have the nuclear weapons test ban negotiations been going on for five years? The history of the negotiations has been one of moving from one deadlock to another but somehow they get going again and the differences separating the two sides from agreement becomes less and less, until they have reached the point where the separation is a matter of numbers. For major powers to spend the time and expense to continue these negotiations, there must be advantages that are mutually acceptable to both sides even though each is not willing to take the extra small step to bring about final agreement.

There are four basic reasons why these negotiations are so important to both sides. First, for humanitarian reason to rid the atmosphere of the scourge of radioactive fallout and its unknown effects on the human race. Second, the reaching of agreement is viewed as one means of slowing down the arms race, particularly in the field of nuclear weapons. Third, there is a better chance for agreement in this area than any other area in relation to arms control and disarmament issues and, therefore, it is

considered as a first step in that direction. Fourth, reaching agreement on a test ban can stop the proliferation of nuclear weapons to countries that do not now hold them.

Each of the above arguments has advantages to both sides; however, there are opposing arguments that have kept the Nuclear Powers from reaching agreement. These arguments revolve around the concept of how much would this agreement affect the national security of the country concerned as opposed to the benefits to be derived if agreement is reached.

The question can also be asked whether the arguments that have been expounded above for the continuation of negotiations would be valid if agreement was reached on the basis of the latest positions outlined in the previous chapter.

II. HUMANITARIAN PRINCIPLES

One of the main arguments put forth not only by the Nuclear Powers but by the Non-nuclear Powers is that nuclear weapons testing must be halted to stop the pollution of the atmosphere. This argument has been the chief plank of the platform of the eight non-aligned members of the Eighteen-Nation Committee. Similarly, it has been the basis for most of the United Nations resolutions on

On 10/10/44, the following information was received from the
Bureau of the Census, Washington, D.C.:

[illegible]

the subject of nuclear weapons testing. There is a difference of opinion in the scientific field about the effects on the human race caused by nuclear testing.

The Committee on the Genetic Effects of Atomic Radiation of the United States National Research Council - National Academy of Sciences said in their report

any radiation is genetically undesirable, since any radiation induces harmful mutations. Further, all presently available scientific information leads to the conclusion that the genetic harm is proportional to the total dosage.¹

Dr. Linus Pauling estimates that testing at the 1958 testing rate of ten megatons fission per year will lead to an increase of 1 per cent in the number of defective births. This, he said, will amount to 15,000 seriously defective children who will be born each year whose defect can be attributed to the bomb tests.

In conclusion, Dr. Pauling says on the subject that

perhaps the estimate that bomb testing at the present rate is producing a one percent increase in mutation rate is wrong. There is a possibility that it is ten times too large. Also there is a possibility (because our knowledge is incomplete) that it is ten times too small. He continued, the geneticists are sure that no one can claim that the genetic effect does not exist. We must all accept the fact that the testing of nuclear weapons is carried out at the expense of the lives of children as yet unborn.²

Dr. Pauling's arguments against nuclear testing for humanitarian reasons are typical of the scientists that believe that any increase in radiation in the atmosphere is a crime against humanity.

Dr. Teller is typical of the opposite school of scientists that believe that the amount of radiation added to the atmosphere is so minute that it is negligible and is far less of a factor than the normal changes in radiation levels caused by natural means. Dr. Teller says:

There is no reason why a scientist or an informed layman should consider radiation a mystery. Our scientific knowledge about radiation is firm and detailed in many ways. We know for example, that all types of radiation produce reactions in the human body that are almost alike. We know the levels at which radiation becomes a danger to humans, and we can predict the effects of certain kinds of radiation at certain levels with considerable precision. We have clear evidence that present levels of radiation in our atmosphere from natural sources and from radioactive fallout of nuclear tests are, at best completely safe for humans or, at worst, are causing exceedingly little damage.

He continued,

compared to massive doses of radiation that can cause illness or even death, radiation from world-wide test fallout is exceedingly small. The bones of human throughout the world today are getting an average of about 0.032 roentgens a year from Strontium 90 in the fallout. The rest of the body is being exposed to about the same amount of radioactivity, mostly from the fallout's Cesium 137. In certain areas there is a greater accumulation of fallout, but it would be difficult to imagine that anyone in the world could receive a lifetime dose of more than four or five roentgens of radiation from fallout. This still is less than the radiation received from cosmic rays alone People living at sea level in the United States are exposed to 0.034 roentgens of radiation from cosmic rays each year. This is seventeen times the amount obtained from the Strontium 90 in the world-wide fallout. Exposure to cosmic rays in Denver, about 5000 feet above sea level, is 0.05 roentgens a year. If such small doses of radiation really were dangerous, we had better evacuate Denver.

Dr. Teller concludes,

if we consider radioactive fallout objectively rather than emotionally, we know that it is not as dangerous as living in Denver rather than San Francisco, that it is not likely to induce cancer as smoking a pack of cigarettes a day, that it is not as likely to give rise to some harmful effects as are many unsuspected chemicals in the food we eat or in the air we breathe, that it is not as apt to produce mutations as wearing trousers. It is, in other words, not worth worrying about.³

Regardless whether Dr. Pauling or Dr. Teller is right, the fact remains that the question of radioactive pollution of the atmosphere by nuclear tests has been very instrumental in keeping the negotiations going by the Nuclear Powers in an effort to reach an agreement on banning tests.

III. SLOW DOWN THE ARMS RACE

Another factor that has been put forth by both sides during the course of the negotiations and by statements of officials of both sides is that a nuclear weapons test ban would slow down the arms race.

The argument goes something like this, that by putting a ban on the testing of nuclear weapons you slow down the arms race because: you stop the further sophistication of present nuclear weapons; decrease the chances of a major breakthrough by one side which would upset the military balance; and, reduce the chances of accidental or pre-emptive attack.

Both sides have stated that the increase in the arms race, which has shifted from quantitative to qualitative development of armament systems, would eventually lead to a nuclear exchange between the two sides by either accidental or other reasons.

Secretary of Defense McNamara aptly described what the eventual outcome of the arms race would be if it was not halted when he said, "As the arms race continues and the weapons multiply and become more swift and deadly the possibility of a global catastrophe, either by miscalculation or design, becomes ever more real."

Thus this argument because of the mutual devastating consequences of a nuclear exchange which will be brought about if the arms race continues, has been instrumental in keeping the negotiations going. Further, it has been a chief argument of the Soviet Union for not accepting a partial or limited ban on testing in the atmosphere, outer space and underwater without a moratorium on underground testing because they claim it will not slow down the arms race but could, in fact, speed it up.

IV. SHALL THEY FOREGO

Another chief argument for the continuation of negotiations for agreement on a nuclear weapons test ban is that because of its mutual advantages, it holds out the

There is a number of other factors which are not mentioned in the text, but which are of great importance in the study of the problem.

the eventual outcome of the case was decided at 11:15 AM. The witness stated that he was not present at the time the case was decided.

There is a great deal of evidence to show that the physical sciences are not yet in a position to provide a complete picture of the world. The physical sciences are still in the process of discovery, and there are many things that we do not yet know. The physical sciences are still in the process of discovery, and there are many things that we do not yet know.

promise of being an area where agreement can be reached and will lead to bigger and more comprehensive arms control and disarmament agreements.

Both the Western Powers and the Soviet Union have moved throughout the course of the disarmament negotiations that have been held since 1945 from searching for partial smallstep agreements to comprehensive all inclusive phased general and complete disarmament schemes. The United States finally agreed to treat the test ban as a separate and distinct issue separate from a broad disarmament agreement in 1959, accepting the view held by the Soviet Union at that time. However, in 1961, the Soviet Union again linked the test ban issue with the comprehensive general and complete disarmament issues as the only way to make progress in the field where control could be accepted in relation to its effect on the national security interests of the Soviet Union. They also gave for its reason for a shift back to the comprehensive general and complete disarmament approach the reason that the United States had not fully accepted the small step principle. They contended that the United States was demanding a control system that could be used as a model for later disarmament agreements and this was out of contact with the amount of disarmament involved in an agreement on a nuclear weapons

[illegible]

test ban, which they argued was not disarmament and, therefore, required little or no control.

There are arguments for and against this small step principle, but it cannot be denied that this search for a position on which agreement can be reached has had an active part in keeping the negotiations going.

V. PROLIFERATION OF NUCLEAR WEAPONS

One of the major arguments that the United States has used to support its position to continue negotiations and to continue to search for agreement is the belief that a test ban agreement would stop the proliferation of nuclear weapons. The proliferation of nuclear weapons in other countries that can develop the capacity and the desire to possess them can constitute a threat to the national security of the United States and the Soviet Union.

The statement has been repeatedly made that the time is rapidly running out that if agreement is not reached it will be too late to stem the distribution of the weapons throughout the world. This would increase the chances of a nuclear war which would have devastating effects on countries as well as the course of history.

The present state of the art of development of nuclear weapons makes their development and the building of

There are several reasons why this will not be the case. First, it is not possible to have a single, uniform standard for all countries. Second, it is not possible to have a single, uniform standard for all countries. Third, it is not possible to have a single, uniform standard for all countries.

One of the major arguments that the United States has used to support the position of non-interference has been the claim that the Government is the only body that can prevent the spread of nuclear weapons. This argument is based on the fact that the Government is the only body that can prevent the spread of nuclear weapons. This argument is based on the fact that the Government is the only body that can prevent the spread of nuclear weapons.

[illegible]

delivery systems very costly. However, many contend that with increased experimentation and testing a pure fusion bomb can be developed which would be easier and cheaper to make and would be within the reach of any country to manufacture and deploy for military use.

However, if a test ban agreement is reached, while not all countries are expected to adhere to it, at least it would limit the number of countries that could join the nuclear club and make control of these weapons much easier to accomplish than otherwise would be possible. Further, if the major Nuclear Powers did reach an agreement, the weight of world opinion would have a dampening effect on those countries that did continue to refuse to adhere to the treaty.

VI. SUMMARY

Thus, there are four major reasons why the Nuclear Powers have continued negotiations in an attempt to reach a nuclear weapons test ban agreement. That is, for humanitarian reasons, to slow down the arms race, to search for a first step agreement, and to stop the proliferation of nuclear weapons. These arguments have been instrumental in keeping the negotiations going for five years; however, they have not been strong enough for the Nuclear Powers to reach agreement.

CHAPTER VI - FOOTNOTES

¹Linus Pauling, No More War (New York: Dodd, Mead and Company, 1958), p. 59.

²Ibid., pp. 49-76.

³Edward Teller, The Legacy of Hiroshima (Garden City, New York: Doubleday and Company, 1962), pp. 167-183.

⁴United States Congress, Senate, Committee on Armed Services, Military Procurement Authorization Fiscal Year 1964, Hearings, 88th Congress, First Session (Washington: Government Printing Office, 1963), p. 35.

CHAPTER VII

SUMMARY AND CONCLUSIONS

I. SUMMARY

The course of this investigation has been through the maze of the negotiations on a nuclear weapons test ban out of which evolved the latest positions of the Nuclear Powers. The reasons why these negotiations continued, when at times in the negotiations it looked like they had reached the same impasse that plagued all previous conferences in the disarmament field, were also looked into. All this was directed towards an attempt to reach some conclusions in reference to the title of this paper, "To Test or Not to Test." This was qualified in the introduction to mean, what is the course of these negotiations, will they go the way of all other disarmament negotiations, or is the mutual advantages strong enough to bring about agreement? A further question that must be answered is will an agreement bring about the conclusions that have been continuously put forward for continuing the negotiations in the light of the final positions of the United States and the Soviet Union?

The negotiations had their beginning with the Conference of Experts from July 1 to August 21, 1958. It was truly a technical conference on the surface, but it also did cover some political areas which led to disagreements

at the later political conference. On the basis of the successful conclusion of the Conference of Experts that it was technically feasible to police a nuclear weapons test ban within certain capabilities and limitations, a political conference was convened to wrap up the final agreement.

The political conference, called the Conference on the Discontinuance of Nuclear Weapon Tests, met from October 31, 1958, to January 29, 1962, and failed to reach agreement because of the basic differences of opinion over the element of effective control. The negotiations managed to continue with the convening of the Eighteen-Nation Committee on Disarmament on March 14, 1962, and they have continued as a part of this conference until the Conference recessed on June 21, 1963. This marked the end of the period of investigation for this paper but not the end of the negotiations.

Out of these negotiations evolved a United States position that would ban tests in all environments and effective control would rest on a national detection system, automatic seismic stations, an international scientific commission and obligatory on-site inspection.

The Soviet Union's position as it evolved was for banning all nuclear weapon tests in all environments and the control system they advocated would include a national

of the later political movements. On the basis of the successful realization of the Committee at Geneva this is not essentially feasible in practice a modern weapon that has within certain capabilities and limitations, a political movement was expected to step up the final agreement.

The political movement, raised the Committee on the Organization of Western Nations Paris, and from October 11, 1953, to January 19, 1957, and failed to reach agreement because of the basic differences of opinion over the amount of extensive control. The negotiations developed no further with the convening of the European Council Committee on Disarmament on March 14, 1961, and they have continued as a part of the conference until the Committee recessed on June 11, 1967. This marked the end of the period of investigation for this paper but the end of the negotiations.

One of these negotiations involved a United States position that would have been in all circumstances and the factor would have been as a national defense system, whereas certain elements in international scientific communities and obligatory co-existence. The Soviet Union's position as it evolved was the demand for Soviet weapons made in all circumstances and the Soviet Union they advocated would include a national

detection system, automatic seismic stations, an international scientific commission, and a quota system of on-site inspection.

It would appear that agreement has been reached because they both are talking about the same basic system; the difference is a disagreement in degree. The United States proposes seven automatic seismic stations and seven on-site inspections per year. The Soviet Union proposes three automatic seismic stations and three on-site inspections per year and refuses to budge or consider any other items until acceptance of these figures. To support their stand, they contend that national systems are adequate for policing a ban in all the environments and their agreement to three automatic seismic stations and three on-site inspections is a concession to the West and is not negotiable. The western position, on the other hand, is viewed as the minimum number of seismic stations and on-site inspections based on the latest scientific evaluation which will ensure effective control and act as a deterrent against possible violations.

Throughout the course of the negotiations, it appeared that an unbreakable deadlock had been reached, only to somehow be broken, usually by correspondence between heads of governments. This has indicated a tremendous interest of the heads of governments to use every means available to continue the negotiations. Why one might ask is this so?

There are four chief reasons why this topic of nuclear weapon testing is so important to be of prime interest to the heads of the Nuclear Powers.

First, there has been a constant world pressure to stop the testing because of the radiation hazards to humanity. There is a difference of opinion as to what this hazard is, but it has been instrumental in keeping the pressure of world opinion on the Nuclear Powers to continue to search for agreement.

Second, each of the Nuclear Powers has realistically stated what the tragic results would be if the arms race is allowed to continue. The test ban is viewed as one way of, at least, slowing down this race.

Third, there is the fact that there must be some start towards reaching agreement between the Nuclear Powers to reduce the risk of nuclear war and to strive towards positive arms control and disarmament measures. The test ban is viewed as one issue where there is the best chance of reaching agreement and thus being the small step that is needed to start the ball rolling.

Fourth, there is the problem of proliferation of nuclear weapons and its resulting increase in international instability and the prospects of nuclear war. The time is ripe now for the stopping of this proliferation when testing is a crucial part of any nuclear weapons

There are two other reasons why this reply is

not a valid answer. First, it is impossible to be of prime

importance in the world of the future.

Second, there has been a constant world pressure to

keep the world peace of the world peace in

existence. There is a difference of opinion as to what this

peace is, but it has been instrumental in keeping the

peace of the world peace in the world peace in existence

in peace for the world.

Third, even if the world peace has been peacefully

established, the world peace would be at the same time

is allowed to continue. The fact is that as one way

it is hard, almost down this road.

Thus, there is the fact that there must be some

kind of world peace agreement between the world peace

to achieve the kind of world peace and to achieve peace

positive and negative and disarmament movement. The fact

is that there is no such world peace in the world peace

of existing agreement and that being the world peace

is needed to start the world peace.

Fourth, there is the problem of the world peace

world peace and the existing movement in disarmament.

Finally, the world peace movement is not the same as

the fact that the world peace is not the same as

the fact that the world peace is not the same as

development program for any nation that has not developed the weapon.

II. CONCLUSION

This brings us up to the point where the question can be asked, where do we go from here?

With the negotiations going on for the last five years under the same advantageous conditions in a world that is constantly changing, will the time be reached when agreement is no longer possible because of the proliferation of the weapons or the discovery of a cheap and simple bomb or a major breakthrough which would upset the military balance?

The history of the negotiations has shown that one cannot be overly optimistic or pessimistic. Although the Soviet Union has held to the present position since January, 1963, the final sessions indicated a possible shift in the Soviet position of some nature in the future. The announcement of the forthcoming talks in Moscow indicate that an agreement is close because the separation between the sides keeping them from reaching agreement is small. Further, practically all of the major progress in the negotiations has been made in private talks or correspondence. However, the Soviet stand in relation to the question of inspection, put forth by the Soviet

development purpose for any nation that has not developed the weapons.

II. Conclusions

This report is an attempt to show that the position can be taken, where it is not taken, that the

With the rapidity of change in the last five

years, the same development position in a world

that is constantly changing, will the time be reached when

agreement is an important factor in the position-

tion of the weapons of the day, and a great deal of

work on a larger scale, which would speed the change

in the position.

The history of the position has been that the

report is every possible in possible. Although the

United States has not in the present position since

January, 1955, the final position is possible

with in the United States of some nature in the future.

The announcement of the position is in the future.

It is not an agreement in the future, the position

between the United States and the position is

well. Further, practically all of the position is

the position is not in the future, the position is

position. However, the position is in the future

position of the position, but it is in the future

representative at the last few meetings, could indicate, as the United States representative pointed out, a possible reversal of the Soviet position on inspections.

Although this study covered the period of negotiations from July 1, 1958, to July 1, 1963, a period of five years, subsequent events make it necessary to bring them into this paper. The three Power meetings that were scheduled for July 15, 1963, in Moscow were successful in bringing the negotiations to a partial conclusion with the signing of a limited test ban treaty on August 5, 1963, banning tests in the atmosphere, outer space and underwater with reliance on national detection and identification systems for policing the ban. The Soviet Union accepted this agreement without a moratorium on underground testing reversing their long advanced position in relation to partial test ban treaties.

With the signing of this limited test ban, the chances of a comprehensive ban are very slim. This shift in the Soviet position indicated that she was not willing to accept the principle of inspection. The positions on a comprehensive test ban were very close and would have required a very small move on the part of the Soviet Union to have reached agreement on a comprehensive test ban. However, as the speeches in the latter part of the negotiations of the Eighteen-Nation Committee on Disarmament and

representation at the last two meetings, could indicate
 as the United States representative pointed out, a possible
 reversal in the Soviet position on independence.

Although this study covered the period of 1955-
 1956 from July 1, 1955, to July 1, 1956, a period of five
 years, responses were made it necessary to bring some
 into this paper. The first three meetings that were
 conducted from July 1, 1955, to March 1, 1956, were
 during the negotiations for a partial settlement with the
 signing of a limited pact was signed on August 2, 1955.
 During these in the negotiations, some facts and figures
 were with reference to national liberation and economic
 development for the period of time. The Soviet Union

accepted this agreement which is considered an important
 feeling regarding that they remained positive in relation
 to partial and non-reversible.

With the signing of this limited pact was, the
 signing of a representative for the very first. This shift
 in the Soviet position indicated that the was willing
 to accept the principle of independence. The position on a

representative was not very clear and would have
 required a very small move on the part of the Soviet Union
 to have reached agreement on a representative that day.
 However, as the speaker in the latter part of the meeting
 stated the representative indicated in statement and

as the United States representative indicated, the Soviet Union was giving second thoughts to the principle of inspection. It appears that the Soviet Union wanted a test ban just as the West desired one, but she was not willing to accept on-site inspections.

What effect does this limited ban have on the mutual advantages that have kept the negotiations plodding on for over five years?

In relation to the humanitarian argument, it completely satisfies this argument because it will ensure against the contamination of the atmosphere by radioactive fallout.

As to the argument that an agreement would slow down the arms race this conclusion is not at all certain. First, with the continuation of underground testing and the arms race shifting to a sophistication of present weapon systems, it would not have an effect on the further development of small sophisticated weapons. Further, the Soviet Union had stated that they would not conduct underground tests because they did not think these tests were necessary. However, there is no doubt that the Soviet Union will, or has already, started a program of underground testing. Therefore, this agreement on a limited ban could shift the arms race from one element of nuclear

as the United States representative indicated, the United States was giving serious thought to the possibility of the question. It appears that the United States wanted a last but not least in the United States, but was not willing to accept such a situation.

It is also noted that the United States was not in a position to accept such a situation, but was not willing to accept such a situation.

It is also noted that the United States was not in a position to accept such a situation, but was not willing to accept such a situation.

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It is also noted that the United States was not in a position to accept such a situation, but was not willing to accept such a situation.

weapons, large megaton weapons, to another, small sophisticated nuclear weapons.

Only time will tell if the agreement will be significant enough to bring about further accommodation between the Nuclear Powers. It is of tremendous significance as it is the best that could be derived out of the series of negotiations and it is what the eight non-aligned nations of the Eighteen-Nation Committee on Disarmament had been advocating since the last deadlock developed in January, 1963.

As to the proliferation of nuclear weapons, there is no doubt that by the number of countries that have signed the Treaty already that it will have a great effect on this problem. A country could develop an underground testing capability, but the cost and the state of the art are such that it is not probable that they would choose to do so. There remains a special problem with respect to France and China as both have refused to adhere to the Treaty. This refusal could have repercussions in other aspects if they continue to test in the atmosphere thus aligning world public opinion against them. For Communist China, which is trying to build up its prestige in the underdeveloped countries, it could effectively tie her hands and force her to move towards underground testing and development. This would increase the expense of the

development, require longer periods of time to develop any capability and reduce the overall capability of the finished weapon system.

In the final analysis, it can be said that the history of the negotiations indicates that there was bound to have been an agreement of some sort due to the importance of the issue and the mutual advantages to the Nuclear Powers if common ground for agreement could be found.

The Nuclear Powers have answered the question "To Test or Not to Test" as it affects their national security interests by saying, to test in the atmosphere, outer space and underwater, no; to test underground, yes.

development, require longer periods of time to develop any

activity and reduce the overall capability of the

limited weapon system.

In the final analysis, it can be said that the

history of the weapons system indicates that there are many

inherent limitations in the system and that the weapons

of the future will be more effective in the future.

It is noted that the weapons system is being

developed to meet the needs of the future.

There are two main points to be made in this regard.

First, the weapons system is being developed to meet the

needs of the future.

Second, the weapons system is being developed to meet the

needs of the future.

Third, the weapons system is being developed to meet the

needs of the future.

Fourth, the weapons system is being developed to meet the

needs of the future.

Fifth, the weapons system is being developed to meet the

needs of the future.

Sixth, the weapons system is being developed to meet the

needs of the future.

Seventh, the weapons system is being developed to meet the

needs of the future.

Eighth, the weapons system is being developed to meet the

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APPENDIX

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A P P E N D I X

APPENDIX A

AGREED PARTS OF THE DRAFT TREATY ON THE DISCONTINUANCE OF NUCLEAR WEAPON TESTS

Agreed text of Preamble

The Parties to this Treaty

Pursuing the aim of reducing international competition in armaments and in the development of new weapons of war;

Endeavouring to take a practical step towards the achievement of the objectives of the United Nations in the field of disarmament including the eventual elimination and prohibition of nuclear weapons under effective international control and the use of atomic energy for peaceful purposes only;

Desirous of bringing about the permanent discontinuance of nuclear weapons test explosions;

Recognizing that the establishment and continuous operation of effective international control is essential to the achievement of this objective;

Hoping that all other countries will also join in undertakings not to carry out nuclear weapons tests and to ensure the satisfactory operation of that control throughout the world;

Confident that a discontinuance of such tests under effective control will make possible progress toward agreement on measures of disarmament have agreed as follows:

Texts of Agreed Draft Articles

Article 1

Each of the Parties to this Treaty undertakes, subject to the provisions of this Treaty and its annexes:

(a) to prohibit and prevent the carrying out of nuclear weapons test explosions at any place under its jurisdiction or control; and

(b) to refrain from causing, encouraging, or in any way participating in, the carrying out of nuclear weapons test explosions anywhere.

Article 2

(a) For the purpose of assuring that the obligations

assumed in this Treaty are carried out by the Parties there is hereby established a Control Organization upon the terms and conditions set forth in this Treaty and the Annexes thereto;

(b) Each of the Parties agrees to co-operate promptly and fully with the Control Organization established under paragraph (a) of this Article and to assist the Control Organization in the discharge of its responsibilities pursuant to the provisions of this treaty and the provisions of any agreement which the Parties shall have concluded with the Control Organization.

Article 3

1. The Control Organization established under Article 2 of this Treaty shall consist of: a control Commission, hereinafter referred to as "the Commission"; a Detection and Identification System, hereinafter referred to as the "System"; a Chief Executive Officer, hereinafter referred to as "the Administrator"; and a Conference of Parties to the Treaty, hereinafter referred to as "the Conference."

2. The Headquarters of the Control Organization shall be located at Vienna.

Article 4

1. The Commission shall consist of one representative from each of the following States:

(a) The Union of Soviet Socialist Republics, the United Kingdom of Great Britain and Northern Ireland, and the United States of America, as original Parties to this Treaty; and

(b) four other Parties to the Treaty elected by the Conference.

2. The States referred to in paragraph 1(b) of this Article shall be elected and shall serve for a period of two years, and shall be eligible for re-election.

3. The representatives elected to the first elected Commission shall serve from the time of their election until the end of the third regular session of the Conference. The representatives elected at the third regular session of the Conference, and biennially thereafter, shall serve from the end of the Conference at which they are elected until the end of the Conference which elects their successors.

INSTALLATION AND OPERATION OF THE SYSTEM IN PARTIES' TERRITORIES

Each of the original Parties and all other Parties to this Treaty agree to accept on territory under their jurisdiction or control components of the System which is established on the basis of the report of the Conference of Experts to Study the Methods of Detecting Violations of a Possible Agreement on the Suspension of Nuclear Tests and shall be installed and shall operate in accordance with the provisions of this Treaty and its Annexes.

UNDERTAKINGS CONCERNING CO-OPERATION WITH THE SYSTEM

1. Each of the Parties undertakes to assure that adequate and expeditious transportation is available from the point of entry, or within its territory to the site of any element of the System or any area where an on-site inspection is to be conducted.

2. Each of the Parties undertakes to enter into appropriate arrangements with the Commission for the utilization of existing meteorological and commercial aircraft flights over ocean areas for routine air-sampling purposes.

3. Each of the Parties undertakes to enter into appropriate arrangements with the Commission to have aircraft immediately available for special flights, carried out pursuant to the provisions of ____, over territory under its jurisdiction or control or to permit special flights by aircraft forming part of the system.

4. Each of the Parties undertakes to enter into appropriate arrangements with the Commission for the utilization of existing weather or geophysical exploration vessels for use as components of the System.

5. Each of the Parties undertakes to give inspection groups, despatched pursuant to the provisions of ____, immediate and undisputed access to the area in which an on-site inspection is to be conducted, to refrain from interference with any operation of an inspection group and to give such groups the assistance they may require in the performance of their missions.

6. (Paragraph 6 will be drafted to make provision for high-altitude detection after this matter has been further discussed).

THE CONFERENCE

1. The Conference consisting of representatives of

COMMISSIONER OF THE GENERAL LAND OFFICE TO THE SECRETARY OF THE TREASURY

That the said General Land Office has the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed amendment to the act of March 3, 1879, relating to the disposal of the public lands, and in reply to inform you that the same has been referred to the proper authorities for their consideration, and that the same will be reported to you as soon as a decision has been reached thereon.

COMMISSIONER OF THE GENERAL LAND OFFICE TO THE SECRETARY OF THE TREASURY

1. That the said General Land Office has the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed amendment to the act of March 3, 1879, relating to the disposal of the public lands, and in reply to inform you that the same has been referred to the proper authorities for their consideration, and that the same will be reported to you as soon as a decision has been reached thereon.

2. That the said General Land Office has the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed amendment to the act of March 3, 1879, relating to the disposal of the public lands, and in reply to inform you that the same has been referred to the proper authorities for their consideration, and that the same will be reported to you as soon as a decision has been reached thereon.

3. That the said General Land Office has the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed amendment to the act of March 3, 1879, relating to the disposal of the public lands, and in reply to inform you that the same has been referred to the proper authorities for their consideration, and that the same will be reported to you as soon as a decision has been reached thereon.

4. That the said General Land Office has the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed amendment to the act of March 3, 1879, relating to the disposal of the public lands, and in reply to inform you that the same has been referred to the proper authorities for their consideration, and that the same will be reported to you as soon as a decision has been reached thereon.

5. That the said General Land Office has the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed amendment to the act of March 3, 1879, relating to the disposal of the public lands, and in reply to inform you that the same has been referred to the proper authorities for their consideration, and that the same will be reported to you as soon as a decision has been reached thereon.

6. That the said General Land Office has the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed amendment to the act of March 3, 1879, relating to the disposal of the public lands, and in reply to inform you that the same has been referred to the proper authorities for their consideration, and that the same will be reported to you as soon as a decision has been reached thereon.

Parties to the Treaty shall meet in regular annual session and in such special sessions as shall be convened by the Administrator at the request of the Commission or a majority of Parties to the Treaty. The sessions shall take place at the headquarters of the Organization unless otherwise determined by the Conference.

2. At such sessions, each Party to the Treaty shall be represented by not more than three delegates who may be accompanied by alternates or advisers. The cost of attendance of any delegation shall be borne by the State concerned.

3. The Conference shall elect a President and such other officers as may be required at the beginning of each session. They shall hold office for the duration of the session. The Conference, subject to the provisions of this Treaty, shall adopt its own rules of procedure. Each Party to the Treaty shall have one vote. Decisions on budgetary matters shall be made pursuant to Article ____ and decisions on amendments pursuant to Article _____. Decisions on other questions, including the determination of additional questions or categories of questions to be decided by a two-thirds majority, shall be made by a simple majority of the Parties to the Treaty present and voting.

4. The Conference may discuss any questions or any matters within the scope of this Treaty or relating to the powers and functions of any organs provided for in this treaty and may make recommendations to the Parties or to the Commission or to both on any such question or matters.

5. The Conference shall:

(a) Elect States to serve on the Commission in accordance with Article 4;

(b) consider the annual and any special report of the Commission;

(c) approve the budget recommended by the Commission in accordance with paragraph ____ of Article ____;

(d) approve reports to be submitted to the United Nations as required by any relationship agreement between the Organization and the United Nations; or return them to the Commission with the recommendations of the Conference;

(e) approve any agreement or agreements between the Organization and the United Nations or other organizations as provided in Article ____ or return such agreement with its recommendations to the Commission for re-submission to the Conference;

(f) approve amendments to this Treaty in accordance with Article ____.

6. The Conference shall have the authority:

(a) to take decisions of any matter specifically referred to the Conference for this purpose by the Commission;

(b) to propose matters for consideration by the

Article 10 of the Treaty shall mean in respect of natural persons and in respect of legal persons as shall be determined by the Commission or a majority of the members of the Council. The Commission shall also have the right to request the Commission or a majority of the members of the Council to take such measures as may be necessary to ensure the effective application of the Treaty.

5. A third session, with party as the primary goal, is recommended by our more than three decades' experience and is recommended by all of our colleagues. The goal is to establish a new organization that will be able to do the work that

3. The Committee shall elect a President and four Vice-Presidents as may be required on the designation of each year. They shall hold office for the duration of the session. The Committee shall elect a President and four Vice-Presidents as may be required on the designation of each year. They shall hold office for the duration of the session. The Committee shall elect a President and four Vice-Presidents as may be required on the designation of each year. They shall hold office for the duration of the session.

[illegible]

(b) Attached for your information are two copies of the memorandum dated 1/11/50.

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(b) Approval cannot be withheld on the basis of matters as required by the relevant agreement between the Government and the United Nations; the United Nations will be responsible for the decision.

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Commission and request from the Commission reports on any matter relating to the functions of the Commission.

PERIODIC REVIEW OF THE SYSTEM

1. Two years after the coming into force of this Treaty, the Commission shall review the System established under this Treaty in order to:

(a) evaluate its effectiveness for verifying compliance with the obligations set forth in Article 1 and
— of this Treaty;

(b) determine in the light of experience and scientific progress whether any specific improvements should be made or new elements added to the System;

(c) consider such measures to improve or maintain the effectiveness of the System as may be proposed by any Party to the Treaty in the light of experience in the operation of the Treaty.

2. The System may be reviewed by the Commission annually thereafter for the same purpose upon request of the Conference or any of the original Parties.

PRIVILEGES AND IMMUNITIES

The privileges and immunities which the Organization, its staff and the representatives of Parties shall be granted by the Parties, and the legal capacity which the organization shall enjoy in the territory of each of the Parties, shall be as set forth in Annex II of this treaty.

RELATIONSHIPS WITH OTHER INTERNATIONAL ORGANIZATIONS

1. The Commission, with the approval of the Conference, is authorized to enter into an agreement or agreements establishing an appropriate relationship between the Organization and the United Nations.

2. The Commission, with the approval of the Conference, shall arrange for the Organization to be brought into an appropriate relationship with any international organization which may in the future be established among the Parties to the Treaty to supervise disarmament and arms control measures.

ANNEXES

The Annexes to this Treaty form an integral part of this treaty.

PARTIES TO THE TREATY

The Parties to this Treaty shall be:

1. The Union of Soviet Socialist Republics, the United Kingdom of Great Britain and Northern Ireland, and the United States of America, referred to herein as the "original Parties".

2. (Item 2 will contain provision for other States to become parties to the agreement. Although there is agreement in principle on this part, language has not yet been worked out among the three negotiating powers.)

SIGNATURE, RATIFICATION, ACCEPTANCE AND ENTRY INTO FORCE

1. This Treaty shall be open for signature on ____ by the States referred to in paragraph ____ of Article ____, and shall remain open for signature by those States for a period of six months.

2. The signatory States shall become Parties to this Treaty by deposit of an instrument of ratification.

3. Instruments of ratification by signatory States and instruments of acceptance by States referred to in paragraph 2 of Article ____ shall be deposited with the Government of ____, hereby designated as the depositary Government.

4. Ratification or acceptance of this Treaty shall be effected by States in accordance with their respective constitutional processes.

5. This Treaty shall enter into force when all the original Parties have deposited instruments of ratification in accordance with paragraph 3 of this Article. Instruments of ratification and instruments of acceptance deposited hereafter shall take effect on the date of their deposit.

6. The depositary Government shall promptly inform all States signatory to the Treaty of the date of each deposit of ratification and the date of entry into force of the Treaty. The depositary Government shall promptly inform all signatories and Parties to the Treaty of the dates on which States subsequently become Parties thereto.

REGISTRATION

1. This Treaty shall be registered by the depositary Government pursuant to Article 102 of the Charter of the United Nations.

2. Agreements between the Organization and any Party to this Treaty or any other State or public international organization shall be submitted for registration by the Commission with the United Nations.

DURATION

This Treaty shall remain in force indefinitely subject to the inherent right of a Party to withdraw and be relieved of obligations hereunder if the provisions of the Treaty and its Annexes, including those providing for the timely installation and effective operation of the control system, are not being fulfilled and observed.

AMENDMENTS

Amendments to this Treaty and its Annexes shall enter into force for all Parties to the Treaty when they have been adopted by a vote of two-thirds of the Members of the Conference and ratified in accordance with their respective constitutional processes by two-thirds of the Parties to the Treaty, including the original Parties.

AUTHENTIC TEXTS

This Treaty, of which the English and Russian texts are equally authentic, shall be deposited in the archives of the depositary Government. Duly certified copies of this Treaty shall be transmitted by the depositary Government to the Governments of the other signatory States and to the Governments of States which become Parties to this Treaty pursuant to paragraph ____ of Article ____.

IN WITNESS WHEREOF the undersigned, duly authorized, have signed this Treaty.

Done at _____ this ____ day of _____, one thousand nine hundred and _____.

ARTICLE IV

1. This Treaty shall be ratified by the President of the United States with the advice and consent of the Senate in conformity with the provisions of the Constitution.

2. The President shall transmit this Treaty to the Senate for its ratification.

3. The President shall also transmit this Treaty to the States for their ratification.

4. The President shall also transmit this Treaty to the Congress for its ratification.

ARTICLE V

1. This Treaty shall remain in force until the President shall order its termination.

2. The President shall order the termination of this Treaty at any time when he shall deem it to be in the interest of the United States.

3. The President shall also order the termination of this Treaty at any time when he shall deem it to be in the interest of the United States.

4. The President shall also order the termination of this Treaty at any time when he shall deem it to be in the interest of the United States.

ARTICLE VI

1. The President shall order the termination of this Treaty at any time when he shall deem it to be in the interest of the United States.

2. The President shall also order the termination of this Treaty at any time when he shall deem it to be in the interest of the United States.

3. The President shall also order the termination of this Treaty at any time when he shall deem it to be in the interest of the United States.

4. The President shall also order the termination of this Treaty at any time when he shall deem it to be in the interest of the United States.

ARTICLE VII

1. This Treaty shall be ratified by the President of the United States with the advice and consent of the Senate in conformity with the provisions of the Constitution.

2. The President shall transmit this Treaty to the Senate for its ratification.

3. The President shall also transmit this Treaty to the States for their ratification.

4. The President shall also transmit this Treaty to the Congress for its ratification.

IN WITNESS WHEREOF, the President of the United States has hereunto set his hand and the Great Seal of the United States at the City of Washington, this _____ day of _____, 19____.

 President of the United States

Text of Agreed Draft Annex II.

Article 1

DEFINITIONS

In this Annex:

(1) The expression "representatives of Parties to this Treaty" includes representatives on or to any organ of the Organization established under the provisions of this Treaty, including the Conference, together with the members of their official staffs.

(2) The expression "representatives of Parties to this Treaty on the Control Commission" includes all members of the official staffs of such representatives except those whose duties are clerical. For the purpose of this Annex such clerical personnel shall be deemed to come within the class of persons referred to in sub-paragraph (1) of this Article.

(3) The expression "members of the Organization staff" includes the Administrator and all employees of the Organization.

(4) The term "expert" shall mean an individual performing a mission on behalf of the Organization either at the headquarters of the Organization or in the territory of a Party to this Treaty.

(5) The term "host government" shall mean the government of the country in which the headquarters of the Organization is located.

Article 2

JURIDICAL PERSONALITY

A. The Organization shall possess juridical personality. It shall have the capacity (a) to contract, (b) to acquire and dispose of property (c) to institute and defend legal proceedings.

B. The Organization may provide for suitable identification of ships and aircraft employed on the official service of the Organization.

Article 3

PROPERTY, FUNDS AND ASSETS

A. The Organization, its property and assets, wherever located and by whomsoever held, shall enjoy immunity from every form of legal process except in so far as in any particular case the Commission, on behalf of the Organization, has expressly waived this immunity, but such express waiver of immunity shall not extend to any measure of execution or detention of property.

B. The premises of the organization shall be inviolable. The property and assets of the Organization, wherever located and by whomsoever held, shall be immune from search, requisition, confiscation, expropriation and any other form of interference, whether by executive, administrative, judicial or legislative action.

C. The archives of the Organization and all documents belonging to it or held by it or by the staff or experts on its behalf shall be inviolable wherever located.

D. The Organization, without being restricted by financial controls, regulations or moratoria of any kind, may, subject to the obligation to give effect as far as is practicable to representations made to it by any Party, exercise the following rights:

(1) to hold currency of any kind and operate accounts in any currency;

(2) to transfer its funds freely from, to, or within any country Party to this Treaty and convert any currency held by it into any other currency.

E. The Organization, its assets, income and other property shall be:

(1) Exempt from all direct taxes except those taxes which are in reality a charge for specific services;

(2) Exempt from all customs duties, prohibitions and restrictions on imports and exports in respect of articles imported or exported by the Organization for its official use; articles imported under such exemption shall not be disposed of, by sale or by gift, in the country into which they are imported except under conditions approved by the Government of that country;

(3) Exempt from all customs duties, prohibitions and restrictions on imports and exports in respect of its publications.

F. The Organization shall be exempt from taxes imposed directly on its expenditure transactions but not exempt from those taxes which are in reality a charge for specific services.

PROPERTY, RIGHTS AND ASSETS

6. The organization, its property and assets, wherever located and by whomsoever held, shall enjoy immunity from every form of legal process except in so far as it may be authorized by the Commission, on behalf of the Organization, in accordance with the immunity, but such immunity shall not extend to any claims of persons for damages or compensation.
7. The members of the organization shall be individuals. The property and assets of the organization, wherever located and by whomsoever held, shall be immune from seizure, requisition, confiscation, expropriation and any other form of interference, whether by executive, administrative, judicial or legislative action.
8. The members of the organization and all documents relating to it shall be inviolable and shall not be subject to search or seizure by any authority.
9. The organization, wherever located, shall be immune from taxation on immovable or movable property, income, profits, dividends, interest or any other form of tax, and shall be exempt from any other form of tax or contribution.
10. The organization, its assets, income and other property shall not be subject to any form of nationalization, expropriation or confiscation.
11. The organization, its assets, income and other property shall not be subject to any form of nationalization, expropriation or confiscation.
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while in the territory of another Party in the discharge of their official duties and during their journey to and from the place of meeting, the following privileges and immunities:

(1) Immunity from arrest, detention or any legal process with respect to words spoken or written and acts done by them in their official capacity;

(2) Inviolability for all their official papers and documents;

(3) The right to use codes, couriers, and sealed bags in communicating with their Governments, their staffs and with the Organization;

(4) The same exemption in respect of themselves and their spouses from immigration restrictions, aliens' registration and national service obligations as is accorded to comparable categories of the staffs of diplomatic missions;

(5) The same facilities with respect to currency or exchange restrictions as are accorded to comparable categories of the staffs of diplomatic missions;

(6) The same immunities and facilities with respect to their personal baggage as are accorded to comparable categories of the staffs of diplomatic missions;

(7) The right to import free of duty their furniture and effects as the time of first arrival to take up their posts in the territory of a Party and, on the termination of their functions there, to re-export such furniture and effects free of duty; furniture and effects so imported shall not be disposed of, by sale or by gift, in such territory except under conditions approved by the Government thereof.

D. A representative to whom this Article applies shall, during any period when he is present in the territory of another Party for the discharge of his duties, be exempt from taxation on his official salary and emoluments, and where the legal incidence of any other form of taxation depends upon residence, any such period shall, for the purposes of determining his liability to taxation, be treated as not being a period of residence in that territory.

E. The Administrator shall communicate to the Parties concerned the names of the representatives and members of their official staffs to whom paragraph B of this Article applies and the probable duration of their stay in the territories of such other Parties.

F. The privileges and immunities accorded under paragraphs A, B, and C are not for the personal benefit of the individuals themselves, but in order to safeguard the independent exercise of their functions in connexion with the Organization.

While in the territory of another party in the discharge of their official duties and during such journey to and from the place of meeting, the following privileges and immunities:

(1) Immunity from arrest, detention or any legal process while engaged in such duties or journey to and from the place of meeting.

(2) Immunity from all civil suits and damages.

(3) The right to use motor, messenger, and mailing privileges in connection with their duties, travel, and other official business.

(4) For such services in respect of transportation and other expenses from the Government, without regard to the usual rules of the Government as to the payment of such expenses.

(5) The same facilities and treatment in connection with their duties as are accorded to members of the same rank in the military service.

(6) The same facilities and treatment with respect to their personal baggage as are accorded to members of the same rank in the military service.

(7) The right to report from any duty station and to return to the place of duty at any time.

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Article 4

COMMUNICATIONS

A. Each Party shall take appropriate steps necessary to ensure that its domestic and international telecommunication services accord to telecommunications of the Organization treatment at least equal to government telecommunications with respect to priority of transmission, and accord these telecommunications higher priority, i.e., special priority as accorded to the United Nations Organization in emergencies, when requested, and that rates charged shall be no higher than minimum government rates. Postal communications shall be handled in the most expeditious manner possible.

B. No censorship shall be applied to the official correspondence and other official communications of the Organization.

C. The Organization shall have the right to use codes known to all Parties and to despatch and receive by courier or in sealed bags only official correspondence, other official communications and objects intended for official use. Such couriers and sealed bags shall have the same immunities and privileges as diplomatic couriers and bags.

D. Nothing in paragraphs B and C. of this Article shall be construed to preclude the adoption of appropriate security precautions to be determined by agreement between a Party and the Organization.

Article 5

REPRESENTATIVES OF PARTIES TO THIS TREATY

A. Representatives of Parties to this Treaty on the Control Commission shall enjoy in the territory of the host government, the same privileges and immunities as the host government accords diplomatic envoys accredited to it.

B. Representatives of Parties to this Treaty on the Control Commission shall enjoy, while present in the territory of another Party in the discharge of Commission duties, the same privileges and immunities as the Party accords diplomatic envoys accredited to it.

C. Representatives of Parties to this Treaty shall enjoy, while present in the territory of the host government and

Consequently, a Party not only has the right, but is under a duty to save the immunity of its representatives and their staffs in any case where, without prejudice to the purposes for which the immunity is accorded.

G. The provisions of Paragraphs A to E above shall not require any Party to grant any of the privileges and immunities referred to therein to any person who is its national or any person who is its representative or is a member of the staff of such representative.

Article 6

Organization Staff and Experts

A. The Administrator and the deputies of the Administrator shall be accorded the privileges and immunities normally accorded to diplomatic envoys.

B. All other members of the Organization staff shall be accorded the following privileges and immunities:

(1) Immunity from arrest or detention whenever assigned to a control post, an inspection group, or a routine or special flight; and at all times immunity from arrest, detention or any legal process with respect to words spoken or written and acts done by them in the performance of their official functions;

(2) The same facilities with respect to currency or exchange restrictions as are accorded to comparable categories of the staffs of diplomatic missions;

(3) The same immunities and facilities with respect to their personal baggage as are accorded to comparable categories of the staffs of diplomatic missions;

(4) The same exemption from immigration restrictions, aliens' registration and national service obligations for themselves, their spouses and members of their immediate families residing with them and dependent on them as is accorded to comparable categories of the staffs of diplomatic missions;

(5) The same repatriation facilities in time of international crisis for themselves, their spouses and members of their immediate families residing with them and dependent on them, as are accorded to comparable categories of the staffs of diplomatic missions;

(6) The right to import free of duty their furniture and effects at the time of first arrival to take up their

posts in the territory of a Party and, on the termination of their functions there, to re-export such furniture and effects free of duty; furniture and effects so imported shall not be disposed of, by sale or by gift, in such territory except under conditions approved by the Government thereof.

C. Every expert performing a mission for the Organization either at the headquarters of the Organization or in the territory of a Party shall be accorded the following privileges and immunities:

(1) Immunity from arrest or detention;

(2) Immunity from legal process in respect to words spoken or written and acts done by him in the performance of his official functions;

(3) The same exemption from immigration restrictions, aliens' registration and national service obligations as is accorded to comparable categories of the staffs of diplomatic missions;

(4) Immunities and privileges specified in items (2) and (3) of paragraph B of this Article.

D. Every member of the Organization staff and every expert shall be exempt from taxation on the salaries and emoluments paid him by the Organization.

E. The Administrator shall keep the Parties currently informed as to each individual to whom any of the foregoing paragraphs of this Article is applicable. A Party shall always be entitled to notification of the name and responsibility of any such individual before his arrival for official duties in the territory of that Party, so that it may have an opportunity to comment to the Administrator upon the proposed assignment of such expert or member of the Organization staff.

F. Privileges and immunities are granted to members of the Organization staff and to experts in the interests of the Organization and not for the personal benefit of the individuals themselves. The Administrator shall have the right and the duty to waive the immunity of any such individual in any case where the immunity would impede the course of justice and can be waived without prejudice to the interests of the Organization. In the case of the Administrator his immunity may be waived by the Commission provided the Commission finds the immunity would impede the course of justice and can be waived without prejudice to the interests of the Organization.

G. The provisions of paragraphs A to D inclusive above shall not require any Party to grant any of the privileges and immunities referred to therein to any person who is its national, except:

(1) Immunity from arrest, detention or any legal process with respect to words spoken or written and acts

...in the history of a party and, as the Commission
is to be established, the Commission shall be
composed of five members, three of whom shall be
appointed by the Government and two by the
people.

1. Every expert concerned with the Commission
shall be appointed by the Government or by the
people, and shall be subject to the following
conditions and limitations:

- (1) The Commission shall be composed of five members, three of whom shall be appointed by the Government and two by the people.
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done by him in the performance of his official functions for the Organization;

(2) Facilities with respect to currency or exchange restrictions so far as necessary for the effective exercise of his functions.

Article 7

ABUSES OF PRIVILEGES

A. The Organization shall at all times cooperate with the appropriate authorities of Parties to facilitate the proper administration of justice, secure the observance of police regulations, and prevent the occurrence of an abuse of the privileges and immunities set out in this Annex.

B. If any Party considers that there has been an abuse of the privilege of residence in its territory or of any other privilege or immunity granted by this Annex, the following procedure shall be adopted:

(1) In the case of an abuse by the Administrator, consultations shall be held between the Party and the Commission to determine the action to be taken.

(2) In the case of an abuse by any individual referred to in paragraphs (1) or (2) of Article 1, the Party which considers that there has been an abuse may, after consultation with the Party whose representative is concerned and in accordance with the diplomatic procedures applicable to diplomatic envoys accredited to the former Party, require the representative to leave its territory.

(3) In the case of an abuse by any individual referred to in paragraph B and C of Article 6, the Party which considers that there has been an abuse may, after consultation with the Administrator and, in the event of disagreement, with the Commission, require the Administrator to arrange for an immediate replacement.

Article 8

LAISSEZ-PASSER

A. Members of the staff of the Organization and experts on missions on behalf of the Organization shall be entitled to use a special laissez-passer procedure modelled on the United Nations laissez-passer procedure, to be evolved by the Administrator pursuant to regulations approved by the Commission.

B. Parties shall recognize and accept the Organization laissez-passer issued to members of the staff of the Organization and to experts on missions on behalf of the Organization as valid travel documents.

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Article 1

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Article 2

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C. Members of the staff of the Organization and experts travelling on the Organization laissez-passer on the business of the Organization, shall be granted the same facilities for travel as are accorded to comparable categories of the staffs of diplomatic missions.

Article 9

INTERPRETATION AND SUPPLEMENTARY AGREEMENTS

A. The provisions of this Annex shall be interpreted in the light of the functions with which the Organization is entrusted by the Treaty and its annexes.

B. The provisions of this Annex shall in no way limit or prejudice the privileges and immunities which have been, or may hereafter be, accorded to the Organization by a State by reason of the location, in the territory of that State, of the headquarters or other components and agencies of the Organization. The Organization may conclude with any Party or Parties agreements supplementing the provisions of this Annex, so far as that Party or those Parties are concerned.

Text of Agreed Draft Annex III

THE PREPARATORY COMMISSION

A. A Preparatory Commission, consisting of one representative from each of the original Parties to the Treaty, shall come into existence on the day after this Treaty shall have been signed by all the original Parties. The Preparatory Commission shall remain in existence until the Control Commission has been elected in accordance with Article 4 of this Treaty.

B. Except as provided in Section E of this Annex, the Preparatory Commission shall take decisions by agreement among the three original parties, adopt its own rules of procedure, meet as often as necessary and determine its own place of meeting. It shall appoint an executive secretary and such staff as shall be necessary, who shall exercise such powers and perform such duties as the Preparatory Commission may determine.

C. The expenses of the Preparatory Commission may be met by a loan provided by the United Nations or by advances from governments. The repayment of loans shall be included as an item in the budget for the Control Organization's first financial period. The Preparatory Commission shall make the necessary arrangements with the appropriate authorities

of the United Nations for repayment of the loan. Advances from governments may be set off against assessments of the governments concerned levied in accordance with the provisions of Article ____.

D. Pending deposit of instruments of ratification of the Treaty by all the original Parties, the Preparatory Commission shall:

1. Conduct preliminary technical studies and consultations with regard to the location, installation, and equipping of control posts and other components of the Control Organization, including:

(a) geological and topographic map studies of geographical areas of the world where control posts are to be located;

(b) consultations with technical representatives of the original Parties for the purpose of adopting standard construction designs for control posts and regional offices and of choosing types of equipment for each of the four basic methods of detection;

(c) studies of the surveys which will be required for selecting sites for control posts;

(d) studies of communication requirements;

(e) consultations with the original Parties for equipping and utilizing their aircraft for routine flights and vessels to be stationed in accordance with the Treaty and its Annexes;

(f) studies of requirements for standard time transmission and reception to ensure accurate relative time at all control posts and other components of the Control Organization.

2. Draw up detailed requirements and regulations for the staffing of the Organization and invite applications for posts to be filled during the initial operations of the organization;

3. Draw up requirements and invite applications for the post of Administrator;

4. Recommend the site in Vienna of the permanent headquarters of the Organization; draw up recommendations for the provisions of a headquarters agreement defining the status of the Organization and its rights and relationship with the host country;

5. Draw up detailed plans for the day-to-day technical and administrative operations of the Organization;

6. Draw up for submission to the Conference the budget for the Organization's first financial period and a recommended scale of assessments in accordance with Article ____ of this Treaty;

7. In conjunction with the United Nations, initiate the preparation of a draft agreement which would be in accordance with Article ____ of this Treaty;

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Finally, the last step is to implement the plan and monitor the results. This involves putting the plan into action and tracking the progress of the solution. Once the problem has been solved, the final step is to evaluate the results and determine if the solution was effective. This involves comparing the results of the solution to the original problem and determining if the problem has been solved.

to maintain the same level of security as the original document.

1. The first of these is the fact that the Commission has not yet received any information from the Government of the Republic of China (Taiwan) regarding the activities of the Chinese Communist Party in the United States.

1. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California:

1. The Commission has received information from the Government of the United States that the United States has been providing military assistance to the Government of the Republic of the Philippines in the form of arms, ammunition, and other military equipment. The Commission is concerned that this assistance may be used for the purpose of suppressing the legitimate aspirations of the Filipino people for self-determination and independence.

Revisions to 229 Safety Program will be collected in
a separate folder and will not be submitted for
approval.

and we hope to be awarded the contract with the Navy.

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the underlying causes. Once the causes have been identified, the next step is to develop a plan of action. This involves identifying the steps that need to be taken to solve the problem and determining the resources that will be needed to implement the plan. Once a plan of action has been developed, the final step is to implement the plan. This involves carrying out the steps that have been identified in the plan and monitoring the progress of the implementation.

THE UNIVERSITY OF CHICAGO PRESS

[illegible]

1. The Commission has received information from the Department of the Interior that the Bureau of Land Management (BLM) is currently conducting a study of the potential impacts of the proposed project on the BLM's management of the public lands in the area. The study is being conducted in accordance with the requirements of the National Environmental Policy Act (NEPA) and the BLM's own policies regarding the management of public lands.

1. The Commission has been informed that the Government of the United Kingdom has agreed to provide a grant of £100,000 to the Commission for the purpose of carrying out a study of the economic situation in the United Kingdom.

8. Make arrangements for the convening of the first Conference, to be held not later than six months from the date of instruments of ratification have been deposited by all the original Parties.

E. 1. On the day after deposit of instruments of ratification of the Treaty by all the original Parties, or as soon thereafter as possible, the Preparatory Commission shall be enlarged, to consist of one representative from each of the original Parties to this Treaty and one representative from four other States, chosen by agreement between the three original Parties from among those states which at that time have deposited instruments of ratification of the Treaty.

2. The Preparatory Commission thus enlarged shall exercise the powers conferred upon the Control Commission by the Treaty, in accordance with the procedures therein specified for the Control Commission. After the Preparatory Commission has been enlarged and pending the appointment of the Administrator, the executive secretary of the Preparatory Commission shall exercise the powers conferred upon the Administrator by the Treaty.

3. Pending the enlargement of the Preparatory Commission pursuant to paragraph (1) of this Section, the Preparatory Commission shall continue to exercise only those functions listed in Section D. of this Annex.

8. Make arrangements for the convening of the first Conference, to be held not later than six months from the date of instruments of ratification have been deposited by all the original Parties.

9. On the day after deposit of instruments of ratification of the Treaty by all the original Parties, or as soon thereafter as possible, the Preparatory Commission shall be enlarged, to consist of one representative from each of the original Parties to this Treaty and one representative from four other States, chosen by agreement between the three original Parties from among those States which at that time have deposited instruments of ratification of the Treaty.

10. The Preparatory Commission thus enlarged shall exercise the powers conferred upon the Control Commission by the Treaty, in accordance with the procedures therein specified for the Control Commission. After the Preparatory Commission has been enlarged and pending the appointment of the Administrator, the executive secretary of the Preparatory Commission shall exercise the powers conferred upon the Administrator by the Treaty.

11. Pending the enlargement of the Preparatory Commission pursuant to paragraph (1) of this Section, the Preparatory Commission shall continue to exercise only those functions listed in Section D. of this Annex.

12. The functions of the Preparatory Commission shall be to prepare the draft of the Treaty and to submit it to the Conference for its consideration and adoption. The Preparatory Commission shall also be responsible for the preparation of the draft of the Regulations and for the preparation of the draft of the Rules of Procedure of the Conference. The Preparatory Commission shall also be responsible for the preparation of the draft of the Rules of Procedure of the Conference. The Preparatory Commission shall also be responsible for the preparation of the draft of the Rules of Procedure of the Conference.

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